Stand Alone Type

# DVR SYSTEM

# NUBIX

# MANUAL

**Firmware 2.3 Version**

**Revision Date : 2005. 02. 01.**

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# • Specification & Organization

## 1.1 Specification

| | | |
|---|---|---|
| Hardware | CPU | 32 bit DSP |
| | HDD | Unlimited HDD Space (Range in HDD×2) |
| OS | | RTOS |
| Video Input | | 4CH NTSC/PAL |
| Display Speed | | 120 (PAL:100) fps |
| Screen Modes | | 1/4 Channel Mode |
| Recording Speed | 352×240 | 120/100 |
| | 704×240 | 60/50 |
| | 704×480 | 30/25 |
| Monitor Output | | Analog(BNC)/S-Video/Supports 1 Spot Out(BNC)/4 Loop-through |
| Recording Resolution | | NTSC : 352×240, 704×240, 704×480 |
| | | PAL : 352×288, 704×288, 704×576 |
| Compression Method | | MPEG4 (Optimized) |
| Byte Size per Image | | 3~5 Kbyte @ 352X240 (PAL : 352×288) |
| | | 5~10 Kbyte @ 704X240 (PAL : 704×288) |
| | | 6~16 Kbyte @ 704X480 (PAL : 704×576) |
| Recording Modes | | Continuous, Motion Detection, and Sensor Activated |
| Recording Schedule | | Setting Recording Schedule per Camera |
| Motion Detection | | Supports the setting of Motion Sensitivity per Camera |
| Sensor/Camera/Alarm I/O | | M:N Mapping |
| Audio Input/Output | | 4 Input / 1 Output |
| Sensor / Alarm | | 4 Input / 1 Output |
| VGA Output (Optional) | | 1 CH |
| P/T/Z Control & Port | | RS-485 |
| LAN | | 10/100Base-TX Ethernet |
| Transmission Speed and No. of Connection | | Depends on Connection Status, Almost Real Time Monitoring<br>1 Connection (1 or 4CH Video) |
| Remote Transmission | | Remote Live Viewing, Remote Playback and Remote File Copy |
| Remote Control | | Remote Pan/Tilt/Zoom/Focus/Iris |
| System Recovery After Power Failure | | Auto-Rebooting, Auto-Scan and Recovery of Data |
| System Operation | | Button on Front Panel and IR Remote Controller |
| Storage Temperature and Humidity | | 20~65°C / 20~95% RH |
| Operating Temperature and Humidity | | 5~50°C / 20~80% RH |
| Power | | DC12V, 4.5A (Adaptor Supplying) |
| Dimension | | 360(W)×44(H)×360(D)mm |
| Weight | | 5 Kg |
| Remote S/W | | Remote Viewer (4CH) |

o 80G HDD Storage Capacity (Hour)

| Resolution / CH, & Frames | Highest | High | Standard | Low |
|---|---|---|---|---|
| 4ch (CIF/30FPS) | 41 | 58 | 93 | 154 |
| 4ch (2CIF/15FPS) | 37 | 46 | 74 | 123 |
| 4ch (D1/7FPS) | 19 | 23 | 38 | 61 |
| 4ch (D1/1FPS) | 93 | 132 | 154 | 185 |

* This value is for 'Continuous Recording', 'Bright Place', and 'Lots of Movement.'
So it can be extended 2~3 times for ordinary environment.

# • Specification & Organization

## 1.2 Product Contents List

Please confirm the contents when you open packing.

### ① Basic Contents

StandAlone DVR

12V Adaptor

Power Cable

User's Manual

Remote Controller

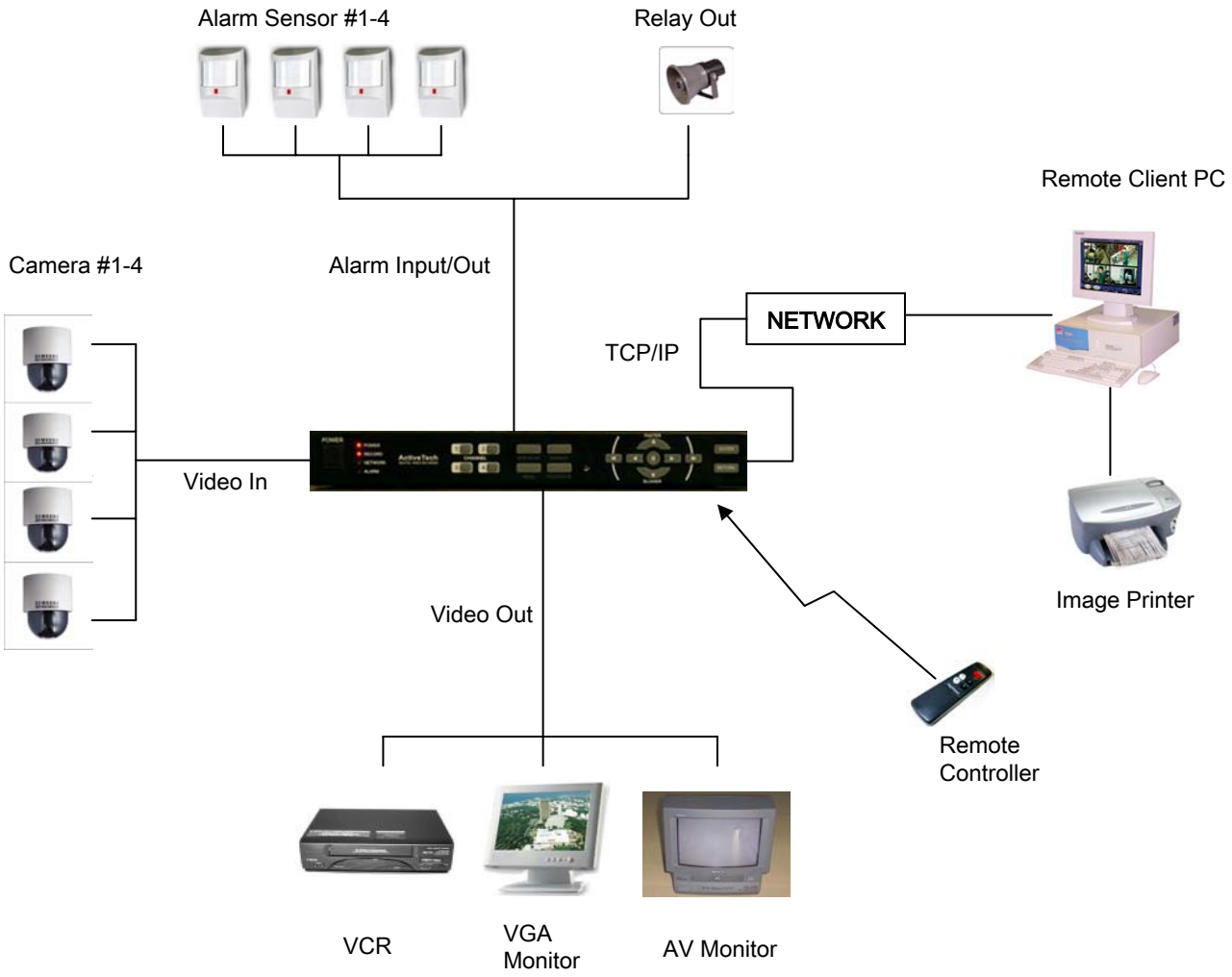
Remote Client Program Install CD

AAA Battery X 2

### ② Option Contents

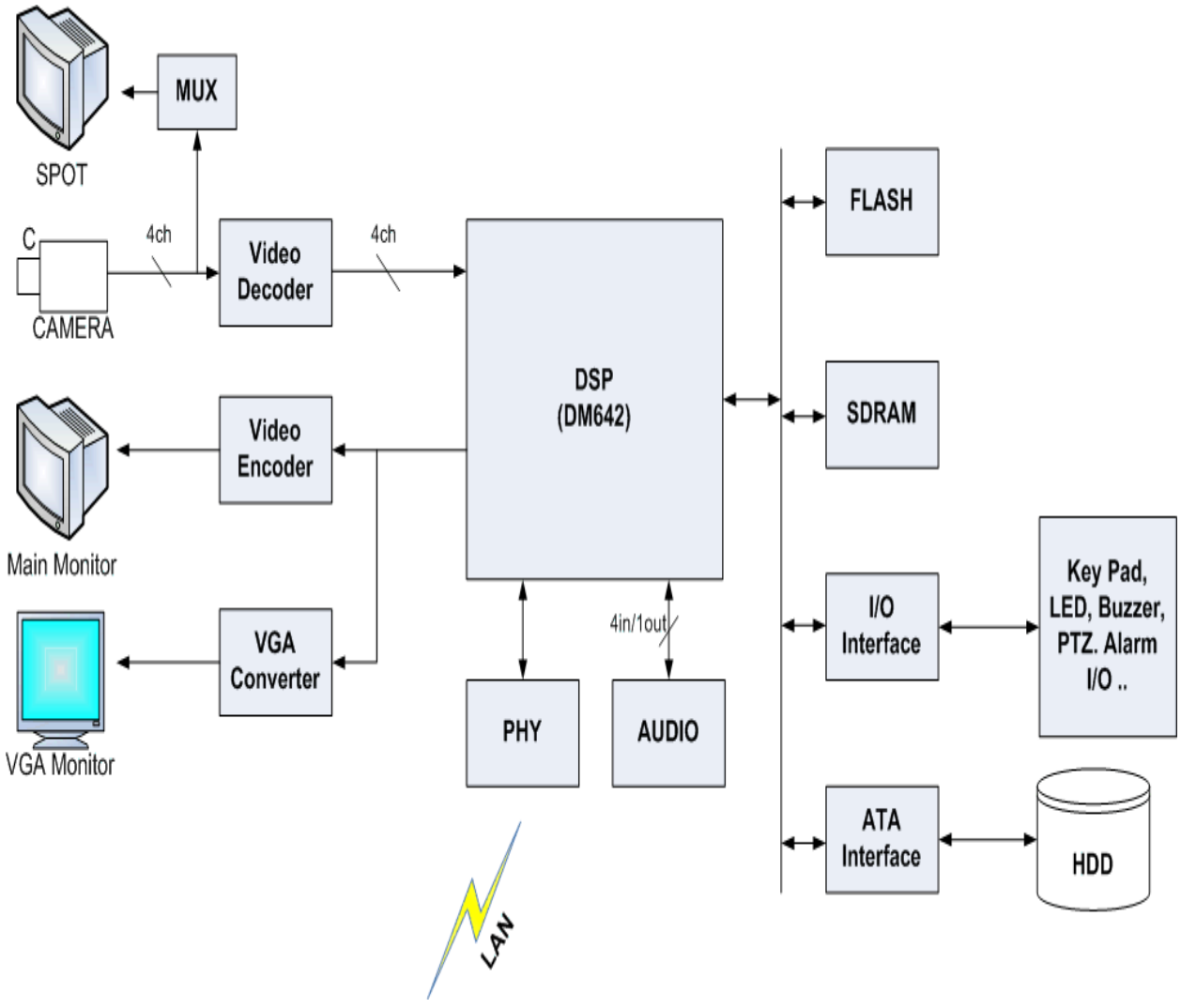
80GB HDD

## 1.3 System Organization



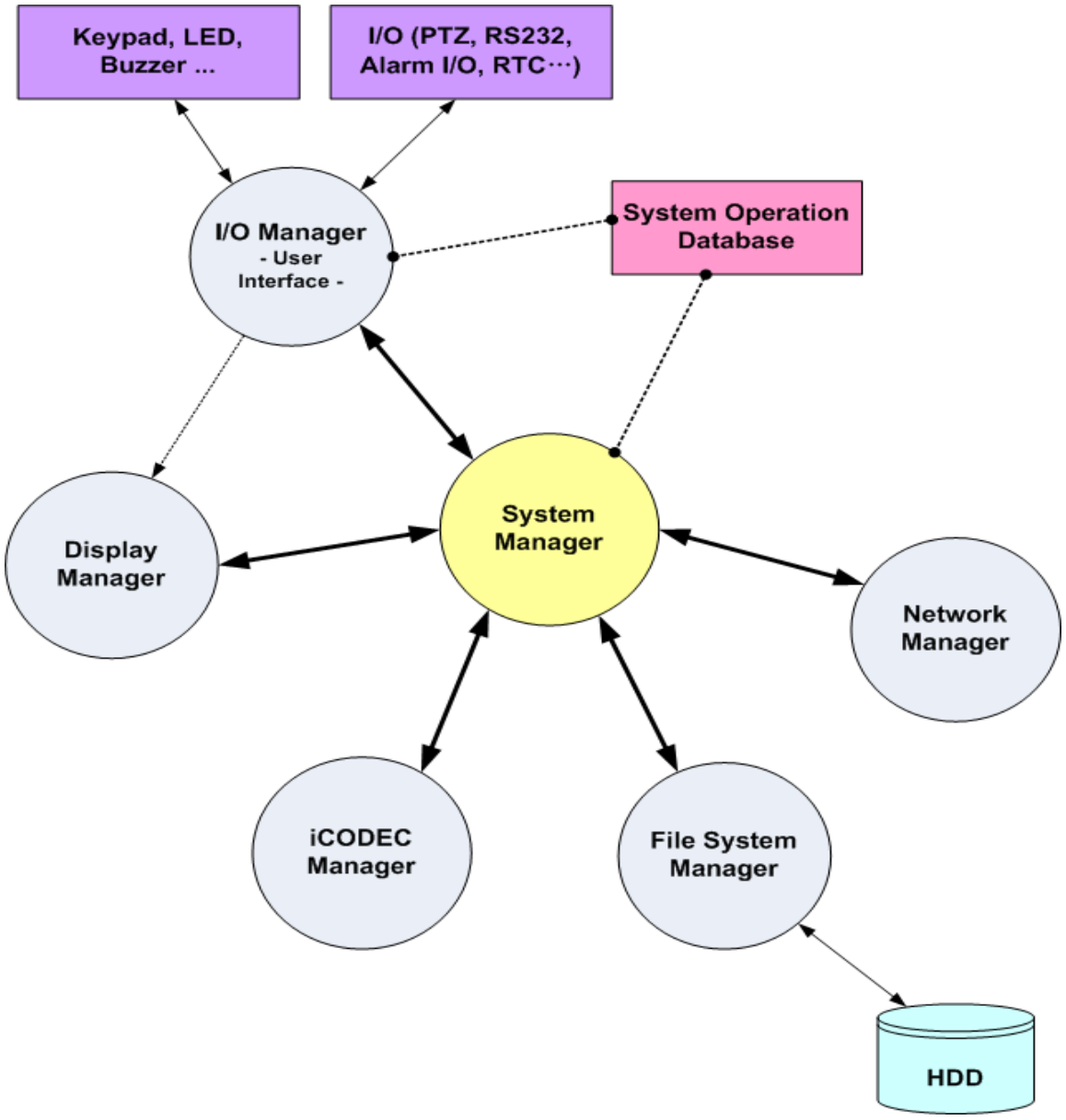
## • Block Diagram

### 2.1 Hardware Block Diagram



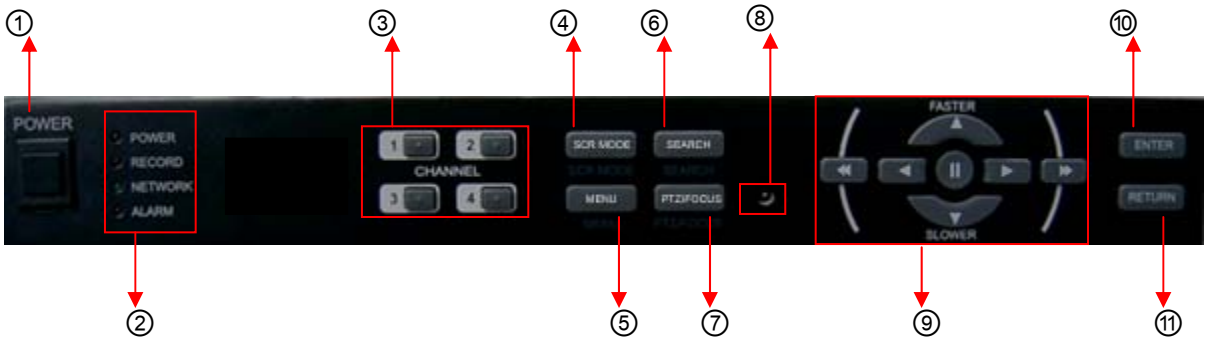
## • Block Diagram

### 2.2 Software Block Diagram



# • Description

## 4.1 Front Panel




① Power : System Power On/Off.

② LED Indicator : Indicate Present System Situation
( POWER: System On/Off , RECORD: Record On/Off ,
NETWORK: Client Network Connect On/Off , ALARM: Alarm Sensor On/Off )

③ Channel Select Button : When Select Channel or Input Password

④ SCR Mode : When Select Screen Division Mode or Rotation Mode

⑤ Menu : Go to System Menu

⑥ Search : Go to Search Mode for Searching Recorded Video

⑦ PTZ/Focus : Go to Camera PTZ/Focus Control

⑧ Remote Controller Sensor Input

⑨ Search Controller : Searching Recorded Video or Control Menu & PTZ/Focus

⑩ Enter : Press Enter to Apply Changing Setup

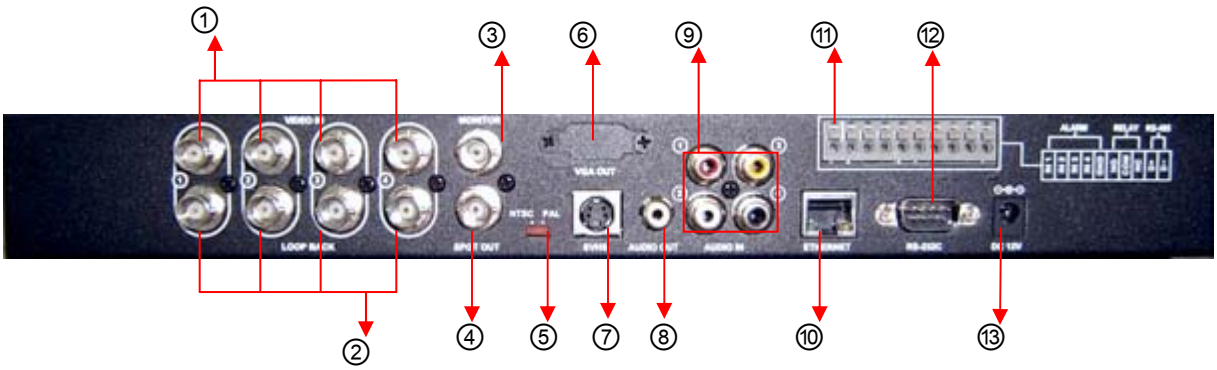
⑪ Return : Cancel Setup or Return Previous Mode

**Tip**

- Power Button is soft style to Prevent System Failure by wrong operation.
- Channel Selection Button is prior to SCR mode.
- When Remote Controller Sensor Input is blocked by something, it cause remote controller do not work properly.
- When press any button, it operate with Beep Sound.

# • Description

## 4.2 Rear Panel




① Video In : BNC Port which Connected DVR & Camera (4 Camera Connectable)

② Loop Back : Output DVR Camera Video to Loop Back Port (4 BNC Port)

③ Monitor Out : Output DVR Video when connected AV Monitor

④ Spot Out : Output Spot-out Video to AV Monitor

⑤ NTSC/PAL : Select NTSC or PAL Type

⑥ VGA Out : Connected VGA Card to Output Video at Computer Monitor (Optional)

⑦ SVHS : Output Video to Connect SVHS Terminal

⑧ Audio Out : Output Recorded Audio

⑨ Audio In : AV Terminal which Connected Camera #1~4 for Input Audio

⑩ Ethernet (TCP/IP) : Connect Port for LAN Cable (Possible to Remote Survey to Connect to Client)

⑪ Alarm/Relay/RS-485 : Connect Port for Sensor & Relay, PTZ

⑫ RS-232C : For Program Debug & Expand Connection (NOT AVAILABLE NOW)

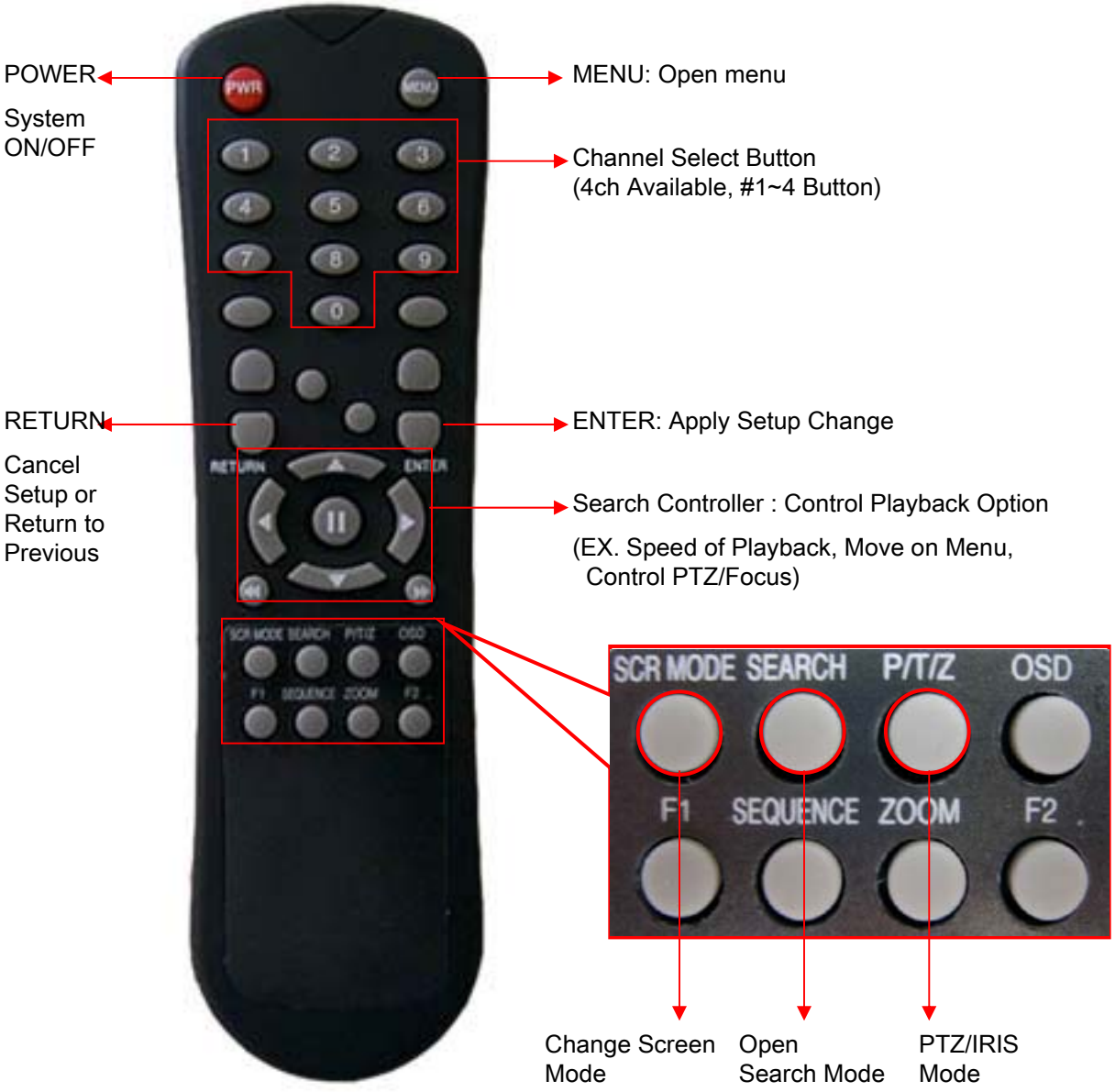
⑬ DC Power Input Terminal : Power Supply by DC 12V Adaptor

**Tip**

- When System Installation, Please Connect when System Off.
- Please Use Specific Adaptor when Power Supply.

# • Description

## 4.3 Remote Controller


POWER
System ON/OFF
MENU: Open menu
Channel Select Button (4ch Available, #1~4 Button)
RETURN
Cancel Setup or Return to Previous
ENTER: Apply Setup Change
Search Controller : Control Playback Option
(EX. Speed of Playback, Move on Menu, Control PTZ/Focus)
SCR MODE SEARCH P/T/Z OSD
F1 SEQUENCE ZOOM F2
Change Screen Mode
Open Search Mode
PTZ/IRIS Mode

- Unused Button's Description is Omitted.
- Every Button is Operated Same as Front Panel Button.
- Remote Controller can Operate when Remote Controller Sensor Input Part Reacted.

※ If there are many DVRs at the same place, they are reacted together when press remote controller

# • Installation

## 5.1 Hard Disk Installation

### ① Jumper Setup Master or Slave

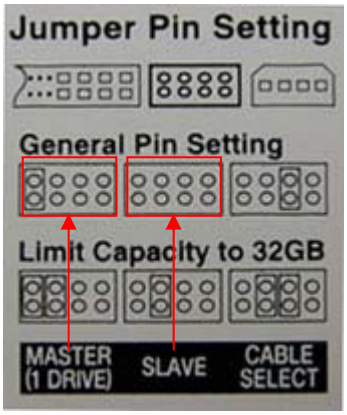
• Jumper Setup as Master or Slave refer to Explanation of Surface Hard Disk

• Jumper is located at Hard Disk Data Cable or Rear Side of Hard Disk

• If One Hard Disk Installation, Setup as Master
If Two Hard Disk Installation, Second One Setup as Slave

‼ When Hard Disk Add or Exchange, Must System Off Properly (Power Button System Off). If not, it's a cause of Fatal Error of Disk.‼

### ※ Example of Samsung HDD Jumper Setup




• Refer to General Pin Setting in Jumper Pin Setting on HDD Surface

• When One HDD Install, Setup Pin as Master and Connect Pin at the Left end of Jumper

• When Two HDD Install or Add HDD, One is for Master and the Other is for Slave. Slave Setup has No Pin.

• When More than Two HDD Installation, Setup as Master & Slave to Connect One IDE Cable the Same Method of Above

### ② IDE Cable Connection to Main Board

• Confirm the IDE Cable Inside of Product

• Among the Three Connector, Indicated Blue Color Connector Must be Connected with Main Board. Other Connectors Connected with HDD

# • Installation

**② Connect IDE Cable to Hard Disk**

• Insert Disk, Red Cable Head to Power Cable Plug

• Connect Power Cable to Hard Disk in the Same Way

※ If One HDD Install, Connect with End of Connector (Black) Recommended.

If Add HDD, Connect with Middle Connector (Gray) Recommended.

One HDD Installation

Two HDD Installation

Bracket Installation

**③ After Finishing Cable Connection, Attach Hard Disk with Screw & Bracket**

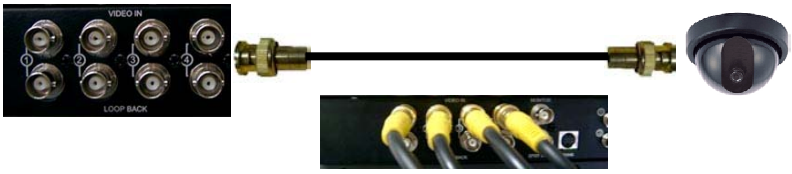
**Tip** —Master, Slave?

• IDE Hard Disk can connect two equipment at one cable (port). For the purpose of prevent confusing, two equipment named 'Master' & 'Slave'. 'Master' is one hard disk or first hard disk and 'Slave' is below second hard disk.

# • Installation

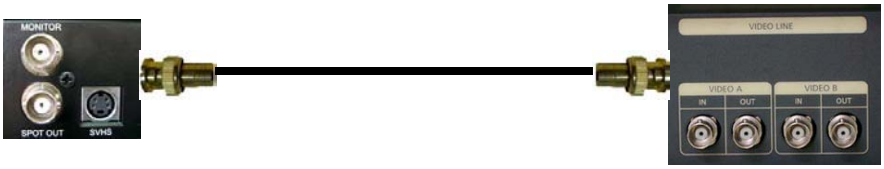
## 5.2 Camera Connection

Connect Camera at BNC Port in Back Side Panel.




## 5.3 Monitor Connection

Connect Monitor Terminal or S-VHS Terminal to Monitor

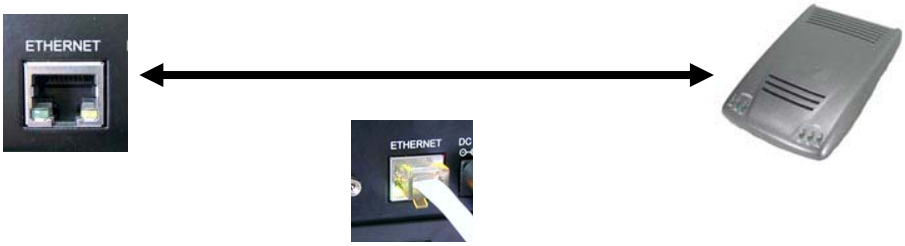



## 5.4 Computer Connection

Connect VGA OUT Terminal to Computer Monitor

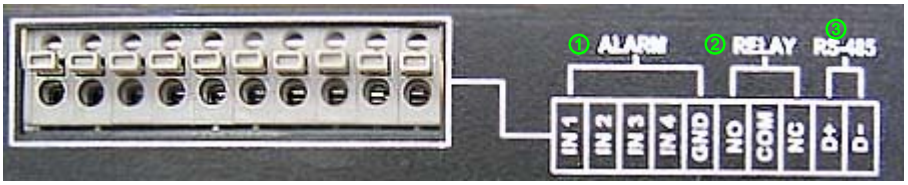
## 5.5 Network Connection

Connect Ethernet Terminal and Network Cable



# • Installation

## 5.6 Alarm/Relay/PTZ Connection




① ALARM

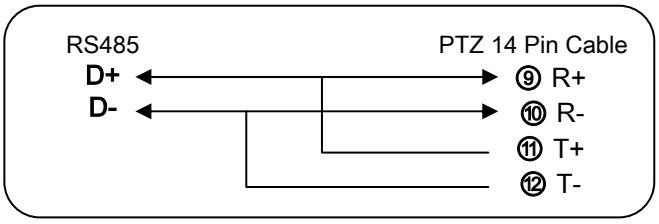
Alarm Input - 'IN1, IN2, IN3, IN4' : Connect Sensor Input by Channel
'GND' : Connect Ground System

② RELAY

Alarm Output – 'NO, NC' : After Checking Alarm Output Type (Normal Open or Normal Close) and Connect to 'NO, NC'
'COM' : Connect Remain Grounding Conductor

③ RS-485

Connect PTZ Camera – 'D+, D-' : Connect PTZ Camera Control Line (+ , – Terminal)




## 5.7 Power Connection

Connect DC Power Input Terminal and Specific Adaptor

## 5.8 Finishing Installation

System Start by Power Button after Finishing Installation

# • Installation

## ※ Hard Disk Format

- If Do Not New Hard Disk Format, System Can't Recognize the HDD.
  So there's Same Situation of No HDD. Please Format HDD when Insert New HDD.
  (Only Display Possible, Not Work Menu & Search)

1. Power On

Checking Hard Disk Drives ...
Disk0 [SAMSUNG SP0802N]
Total 1 Hard Disk Drive Found.
New System Disk Detected.
All Disks Will Be Formatted.
Format All Disks? NO ( 0)

2. New HDD Format
(Select Play , Backward Play Key)

3. System Start
(Initial Mode)

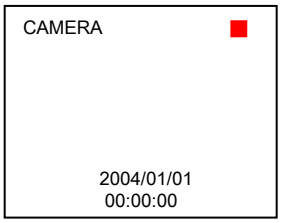
# • Monitoring

## 6.1 System Power ON

Picture for Power On
after Finishing Installation

POWER

- Press Power Button to Start System
- After Checking Hard Disk, Need input Password to Operation
- Initial Screen View Mode is Quad Division Mode and Recording Mode



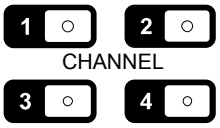

- Each Channel Indicate Camera Name & Recording Status
- Present Time & Date Indicate at Monitor Central Lower Side

**Tip**

- Check System Condition at LED

  POWER : Showing System On/Off
  RECORD : Showing Record On/Off
  NETWORK : Showing Client Connection Status
  ALARM : Lighting when Sensor Alarm Activate

## 6.2 Select Screen Mode




- Select One Channel among 4 Channels
- Move to One Enlargement Watch Mode when Quad Screen Division Mode
- Move to One Enlargement Watch Mode when Rotation Mode

# • Monitoring

## 6.3 Convert Screen Mode (SCR MODE)

SCR MODE

• User can Select 3 Kinds Watch Mode

① Quad (4CH) Division Watch Mode

② Selected 1CH Watch Mode

③ 4CH Rotation Watch Mode

• Quad (4CH) Watch Mode is Initial Mode when System Start

Quad (4CH) Division Watch Mode

Selected 1CH Watch Mode

4CH Rotation Mode

## 6.4 PTZ/FOCUS Control

PTZ/FOCUS

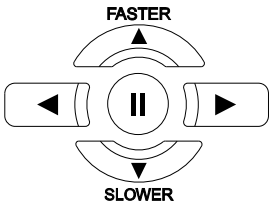
• Control Camera PTZ (Pan/Tilt/Zoom) & Focus (Only Useable for Proper Camera)

• Press PTZ/FOCUS Button to Open PTZ Menu at Right-Under Side and Control by Search Controller

• Press PTZ/FOCUS Button Second Time to Open FOCUS/IRIS Menu and Control by Search Controller

PTZ CTL
UP
LEFT RIGHT
DOWN

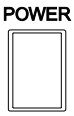
FOCUS/IRISCTL
UP
LEFT RIGHT
DOWN




Search Controller

Control Camera PTZ & Focus by Search Controller on PTZ Menu

## 6.5 System Power OFF




• Press Power Button to System Off

• Input Password and Press Enter to Shutdown System

**Tip**

• System Log-On Possible ID : 'Administrator', 'Manager', 'Operator', 'Network'

Administrator: All Function Access (System On, Shutdown, Setup, Search)
Manager: System On and Search
Operator: System On
Network: Connect by Remote Program

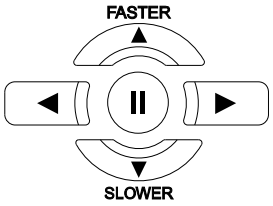
# • Search

⊙ Go to Search Mode

Search Recorded Data

SEARCH

• Press Search Button and Log-In Administrator or Manager




• Use Direction Key to Move Menu

ENTER ▶

• To Open Each Menu Press Enter

RETURN

• Return to Previous.
(Move to Previous Menu or Exit Search Mode and Return to Watch Mode)

## 7.1 Search by Date/Time

- Possible to Search Recorded Date & Time

① Move Cursor to Selected Date in Calendar
(Recorded Date & Time Indicated by Gray Color)

② Press Enter to Open Selected Date

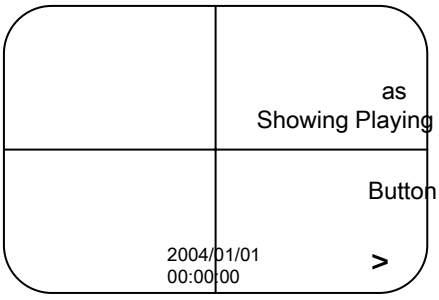
③ Recorded Time Appear to Under Side

④ Press Enter at Selected Time
(One Scale is 15 Minutes)

⑤ Menu Disappear and Output Recorded Video

• Showing Recorded Date & Time at Left-Upper Side as Watch Mode.
Condition at Right-Under Side.

• Channel Selection Button in Watch Mode & SCR Mode are Apply the Same as Search Mode.
(But Menu, Search, and PTZ/Focus Buttons are Exception)



# • Search

• Control Playing Video

① : Basic Playing Mode (Normal Speed (1X) Forward Playing)

② : Normal Speed Backward Playing

③ : Pause Video

④ : Fast Forward (2 ~ 64 Speed)

⑤ : Fast Backward (2 ~ 64 Speed)

⑥ FASTER / SLOWER : Same Function as # ④,⑤

※ Press Normal Forward/Backward Button in Pause, Move to Next/Previous Frame.

## 7.2 Search by Event

- Searching Video with Event Occurrence to Set up Period

Set up Period to Select Start Date & Finish Date for Searching Event

Alarm : Searching Alarm Event during the Selected Period

Motion : Searching Motion Detected Event during the Selected period .

Timer : Searching Schedule Change or Recording Setup Change Event

System : Searching Power On/Off Event (etc.) Concerned System Event

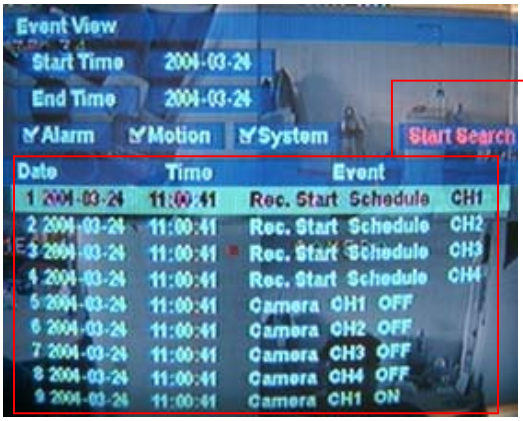
Event List Showing at Below Output Window

**Tip**

• Alarm, Motion, System can be Select plural by Check (V)-(ENTER)

• To Change Setup, Press Enter and Press Direction Key
After Changing Setup, Press Enter to Exit.

## • Search




• Date : Indicate Event Occurrence Order & Date

Time : Indicate Event Occurrence Time

Event : Indicate Event Contents & Camera No.

• Event Searching Method

① User can Search Event Using by Direction key

② Search Event to Press Enter at Selected Event from Event Occurrence Time

③ Control Video is the same way as Time Mode Control

**Tip**

• The Search by Event is not Base on Video, but Event Occurrence Time.

# • Menu

### ⊙ Go to Menu

① Press Menu Button on Front Panel in Watch Mode

② Ask Password

③ Input Password Using by Channel Select Button [1][2][3][4])

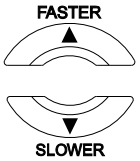
④ After Input Password Press Enter to See Menu

**Tip**

- Initial Administrator, User, Network Password is 1234.
- Showing Password as *
- Changing Password (MENU->6.System->4.Password )
- Only Watch Mode can go to Menu.
  (Search & PTZ/Focus Mode can't move to Menu)

### ⊙ Menu Initial

• Every System Setup can Change or Maintain at Menu (6 Setup)

• 

Move to Menu Using by Up & Down Button

• ENTER

To Open Detail Menu or to Apply Input

• RETURN

Return to Previous Menu or Return to Watch Mode

# • Menu

## 8.1 Display

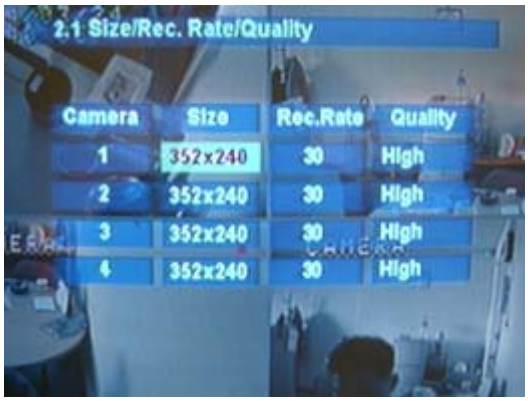
- Video Setup for Watch Mode

1. Date/Time : Date & Time Mark On/Off
2. Title : Camera Name On/Off
3. Status : Record Condition Mark On/Off (Recording: Red, Pre-recording : Green)
4. Border : Border Mark On/Off when 4CH Division Watch Mode
5. Border Color : Select Border Color (White, Blue, Red, Yellow, Green, Gray)
6. Sequence Dwell : Setup Rotation Cycle Time (1~60 Sec.) when 4CH Rotation Mode at Watch Mode
7. Spot-Out Dwell : Setup Spot-Out Time Cycle (1~60 Sec.) to Transmit Video
8. Deinterlace Mode : Remove Screen Spread on High Resolution , Low Frame
※Only Applying When D1(704X480)

## 8.2 Record

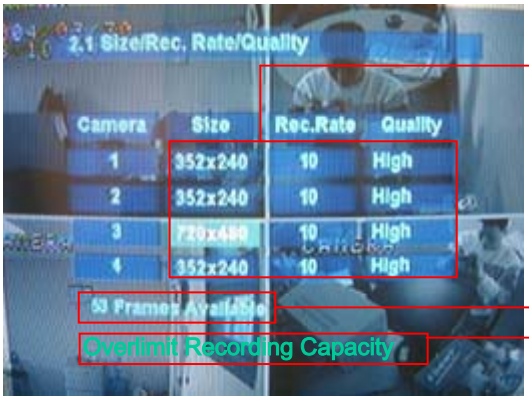
- Setup Image Record

### 8.2.1 Size/Rec.Rate/Quality – Setup Recording Resolution, Compression Rate, Quality




-Camera : Indicate Camera No. to Setup
-Size : Setup Resolution
-Rec.Rate : Setup Compression Rate
-Quality : Setup Quality of Recording Video

## • Menu




• Size : 352*240, 704*240, 704*480

Rec.Rate : Possible to Select (1~30)

Quality : Possible to Select 3 levels (High, Low, Standard)

• Indicate Frame No. to Control Size & Rec. Rate

• If Frame Over, Showing a Message 'Overlimit Recording Capacity' and Impossible to Change Size & Rec. Rate

**Tip**

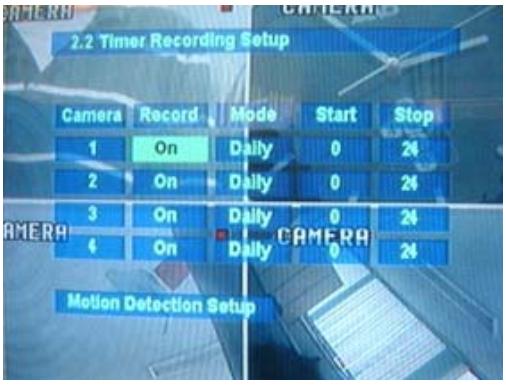
• When Setup, Please Refer to Below NTSC & PAL Type

NTSC : 352*240(120fps), 704*240(60fps), 704*480(30fps)
PAL : 352*288(100fps), 704*288(50fps), 704*576(30fps)

• Possible to Setup Size & Rec. Rate, Quality per Each Channel

• When Applying Change Setup, Press Enter,
When Cancel Change Setup, Press Return.

### 8.2.2 Timer Recording Setup – Record On/Off or Time, Motion Setup




• Camera : Indicate Camera No. to Setup

• Record : Record On/Off

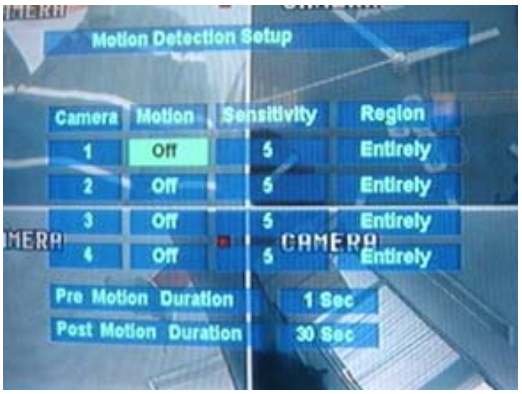
• Start : Setup Recording Start Time (0~24 hr)

• Stop : Setup Recording Finish Time (0~24 hr)

* Recording Time is between Start Time and Finish Time.

• Motion : Motion Detection Recording On/Off
(Record Setup must be 'On', when Motion Detection Recording.)

### 8.2.3 Motion Detection Setup – Motion Detection Area & Sensitivity




• Camera : Indicate Camera No. to Setup

• Sensitivity : Control Sensitivity (1~100)
Large No. is More Sensitive.

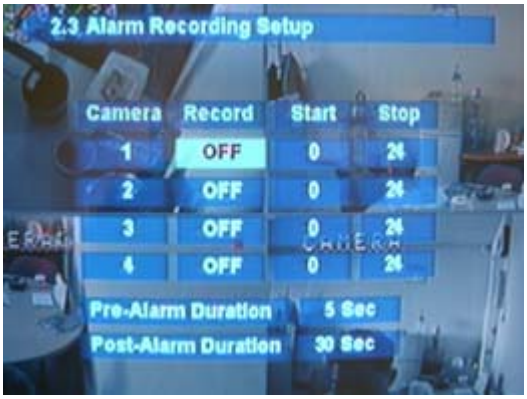
• Region : Setup Motion Detect Range
Entirely – Setup Entire Screen
Partially – Setup Partial Screen

• When Choose Region as Partially, Move to Partial Range Setup. Press Enter After Partial Range Setup to Finish Region Setup.

• Pre-Motion Duration : Setup Pre-Motion Duration Time. (1~5 sec)

• Post-Motion Duration : Setup Motion Detect Recording Time after Motion Detected (5sec~3min)

### 8.2.4 Alarm Recording Setup – Recording Setup for Alarm Activated




• Camera : Indicate Camera No. to Setup

• Record : Setup Record On/Off when Alarm Activated

• Start : Setup Alarm Recording Start Time (0~24 hr)

• Stop : Setup Alarm Recording Finish Time (0~24 hr)

• Pre-Alarm Duration : When Alarm Recording, Setup Start Recording Time before Alarm Activate (1~5sec)

• Post-Alarm Duration : Setup Alarm Recording Time after Alarm Activate (5sec~3min)

**Tip**

• Motion Setup Work by Time Schedule and Alarm Schedule Work Independently.

# • Menu

### ⊙ Time Recording Weekly Setup

①

Weekly mode Setup at Record Setup

②

Scheduled Region Indicated Yellow

③

After 'Deselect' Schedule, Activated Region by Press 'ENTER' and Select Date & Time to Move Cursor

④

After Selecting Region and Press 'ENTER' Again to Finish Schedule Setup (Red)

⑤

Setup Date & Time Schedule in the Same Way.
After Finishing Schedule Setup,
Press 'Return' for Save & Exit

⑥

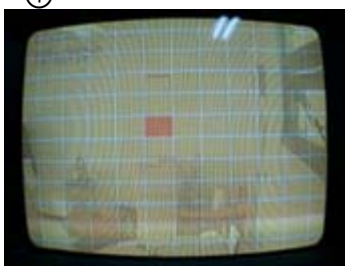
- Select All : Entire Region Select
- Deselect All : Cancel Region
- Save & Exit : Save Changing Setup & Exit
- Cancel : Cancel Changing Setup & Exit

# • Menu

## ⊙ Partial Motion Region Setup

:Non-Activate Move Cursor :Activate Partial Setup Cursor :Partial Setup Finish Cursor :Non-Activated Region

①



Region Initial View

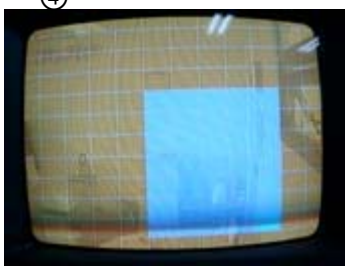
②

Move Cursor by Direction Key and Press Enter at Selected Region

③

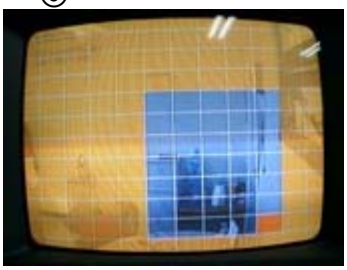
Press Enter again to see Region as a Blue Color and Setup Non-Activate Region

④



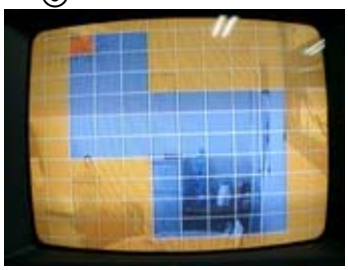
When Select Multi Region, Using Direction Key in ② to Expand Non-Activate Region

⑤



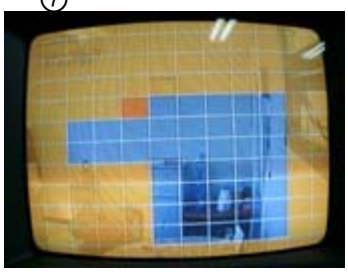
Press Enter to Select Multi Non-Activate Region

⑥



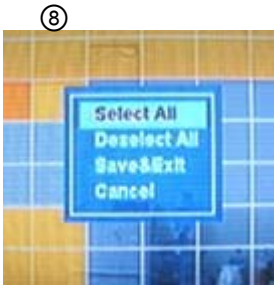
Same Method as ④⑤, Possible to Expand Non-Activated Region

⑦



For Reducing Partial Region, Cancel Non-Activate Region in Same Way as ④⑤

⑧




When Finishing Partial Region Setup, Press Enter to Save & Exit

- Select All : Select Entire Region
- Deselect All : Cancel Region Setup
- Save&Exit : Save the Change Setup & Exit
- Cancel : Cancel Change Setup & Exit

# • Menu

## 8.3 Camera

- Setup Camera

### 8.3.1 Status/Title Setup – Camera Connection Status & Camera Name Setup

• Camera : Indicate Camera No. to Setup

• Status : Indicate Camera Status
(Connected/Disconnected)

• Title : Setup Camera Name to Show Left-Upper Side

**Tip**

• Title Input Method

Using Direction Key, Up & Down Keys for Alphabet A~Z, Numerical No. 0~9
Left-Right Keys for Move to another Letter.

### 8.3.2 Covert/PTZ Setup

• Camera : Indicate Camera No. to Setup

• Covert : Setup Covert On/Off
*What's Covert?
When Covert On Watch Mode, Display Video is Hidden, but Recording is On.

• PTZ Address : Select PTZ Camera Address

• PTZ Protocol : Select Kind of PTZ Camera

• Baud Rate : Setup PTZ Communication Speed
(2400, 4800, 9600 BPS)

※PTZ Supplied Protocol :
Samsung(MRX-1000), HoneyWell(GC/GMC-755 Zoom)
Kalatel(KTD-312), Panasonic(WV-CS850),
Panasonic(WV-CSR604), PELCO-D, PELCO-P,
Sensormatic-ADPT8, Vicon(surveyor99), Sunin DSC-230

# • Menu

### 8.3.3 Color Setup – Control Video Color

• Camera : Indicate Camera No. to Setup

• Bright : Control Monitor Bright

• Contrast : Control Monitor Contrast

• Color : Control Monitor Color

• Tint : Control Monitor Tint

* All Setup Possible to Control 0~100

## 8.4 Audio

- Setup Audio

### 8.4.1 Audio Recording Setup – Audio In Setup

• Camera : Indicate Camera No. for Setup

• Audio Rec. : Setup Recording On/Off from External Audio In Terminal

• Audio Ch. : Setup Audio In Terminal Channel & Audio Output Camera

**Tip**

• User can Listen Saved Audio with Saved Video

• Audio Check in Search is Possible Only Normal Speed (1X) Forward Playing at 1CH Mode (Audio Recorded Channel)

### 8.4.2 Live Audio Setup – Audio Out Setup

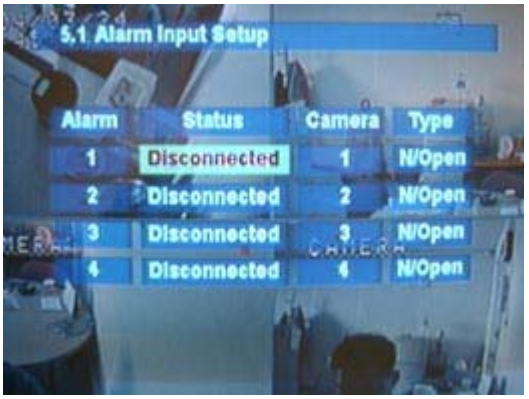
• Live Audio : Audio Output ON/OFF
Live Audio Output from Audio In Terminal

• Monitoring Ch. : Select Channel for Audio Output
Nr. 1~4 Audio In

## 8.5 Alarm

- Setup Alarm & Relay

### 8.5.1 Alarm Input Setup – Alarm Sensor Setup




• Alarm : Indicate Alarm Input Terminal No.

• Status : Setup Alarm Sensor Connection Status
(Connected/Disconnected)

• Camera : Input Camera No.1~4 to Connect Alarm

• Type : Setup Alarm Sensor N/Open, N/Close Type

**Tip**

• Generally Alarm Sensor can be Divided Two Types.

Normal Open Type is Open Sensor Electrically and Reacted when Signal is Connected.

Normal Close Type is Close Sensor Electrically and Reacted when Signal is Disconnected.

# • Menu

### 8.5.2 Relay Output Setup – Alarm Relay Setup

- Alarm : Indicate Alarm Input Terminal No.
- Relay Out : Setup Relay Connect with Alarm Sensor
- Mode : Setup Reacted Relay as Latched/Transparent Mode
- Duration : Setup Reacted Relay Time
(5sec~5min or Until key-in)
- Relay Type : Setup Relay Type N/Open or N/Close

**Tip**

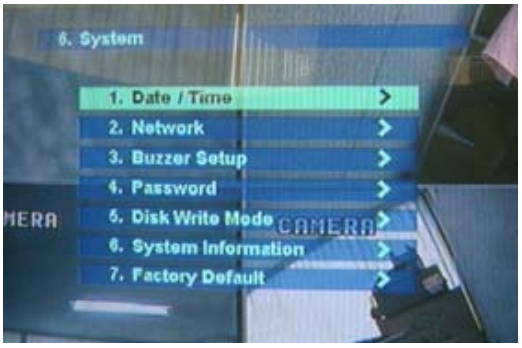
- Latched/Transparent

Latched – When Sensor Alarm Activated, Relay Reacted in Setup Duration
Transparent – Relay Reacted Temporary During Sensor Alarm Activate

## 8.6 System

- Basic Environment Setup

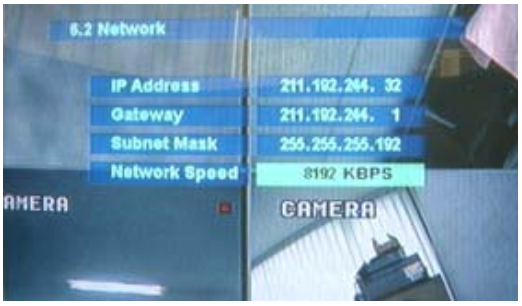
### 8.6.1 Date/Time – Date & Time Setup



- Date : Setup Present Date (YYYY-MM-DD).
(If Time Setup to Past Date, Ask Delete Data for the Past Date.
NO->Date/Time No Change, YES->After Delete Past Data and Change Date/Time )
- Date Format : Select Date Output Type (Ex: 2004-00-00, 2004/00/00)
- Time : Setup Present Time
- Time Format : Setup Time Type as 12 Hour Base or 24 Hour Base
- Daylight Saving : Summer Time Applying Status

# • Menu

### 8.6.2 Network – Setup TCP/IP




- IP Address : Input IP Address
- Gateway : Input  Gateway IP for Internet Server
- Subnet Mask : Input Subnet Mask IP
- Network Speed : Setup Network Speed
  (Network Speed from System, Depend on Network Status)

※ If Change Network Setup, New Change Apply
  when after Rebooting.

### 8.6.3 Buzzer Setup – Setup Key Sound to Speaker

- Alarm Input : Alarm On/Off when Alarm Activate
- Videoloss : Alarm On/Off when Camera Disconnected
- Disk Full : Alarm On/Off when Hard Disk Full
- Disk Error : Alarm On when Hard Disk Error
- Key Input : Setup Key Input Sound

### 8.6.4 Password – Setup Password

#### 8.6.4.1 Administrator Password – Setup Menu & System On/Off

- Current Password : Input Current Password (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

**8.6.4.2 Manager Password –** Possible System On & Search, But Can't Change Setup

- Current Password : Input Current Password
  (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

**8.6.4.3 Operator Password –** Possible System On, But Can't Change Setup and Search

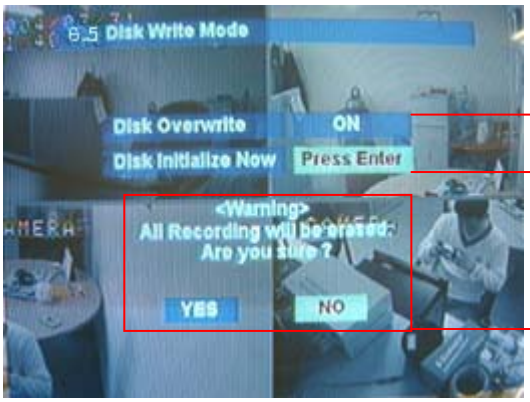
- Current Password : Input Current Password
  (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

**8.6.4.4 Network Password** – Setup Remote Connection Program Password

- Current Password : Input Current Password
  (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

# • Menu

### 8.6.5 Disk Write Mode – Setup Hard Disk



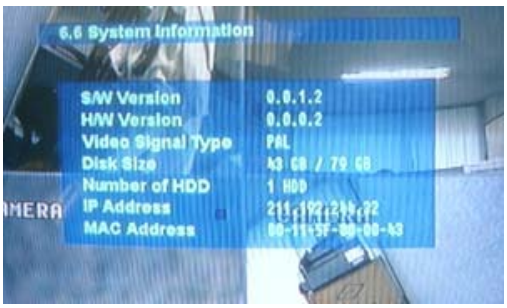

• Disk Overwrite : Select Overwrite Permission when Hard Disk Full
O N: Overwrite Hard Disk from Oldest Data
OFF: When Hard Disk Full, Stop Recording and Buzzer Activate (Refer to Menu 6.3 Buzzer Setup)

• Disk Initialize Now : Refreshment Hard Disk
All Recorded Data Deleted

• When Select Disk Initialize, Alarm Message Showing.
Select 'Yes' to Start Disk Initialize.

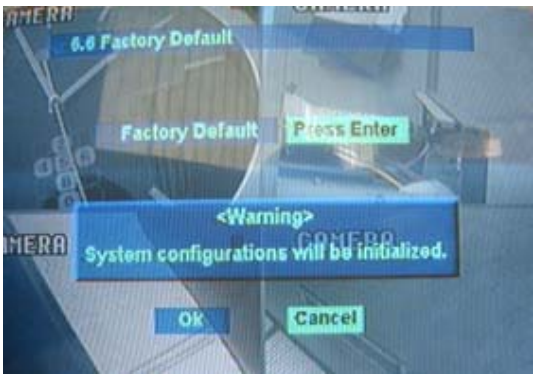
※When Change Disk Overwrite ON/OFF Mode, the Change will be Applied from Changing Time.
For Example When Overwrite On Mode & HDD Full, Change to Overwrite Off Mode and then it will be Applied New Data Fill HDD Full after Changing Time.

### 8.6.6 System Information – Product information (Version etc)




• S/W Version : Indicate Software Version of the Product
• H/W Version : Indicate Hardware Version of the Product
• Video Signal Type : Indicate Video Signal Type
• Disk Size : Indicate Hard Disk Capacity
• Number of HDD : Indicate Present Installed HDD No.
• IP Address
• MAC Address

### 8.6.7 Factory Default – Every Setup Initializing




• Press Enter to Start Initialize
• Showing Warning Message and Press OK to Run Initialize
• If do Factory Default, Every Setup is Initialized, but Saving Image is Not Erase.

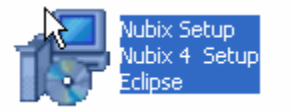
# • Nubix Remote Client

### • System Requirement

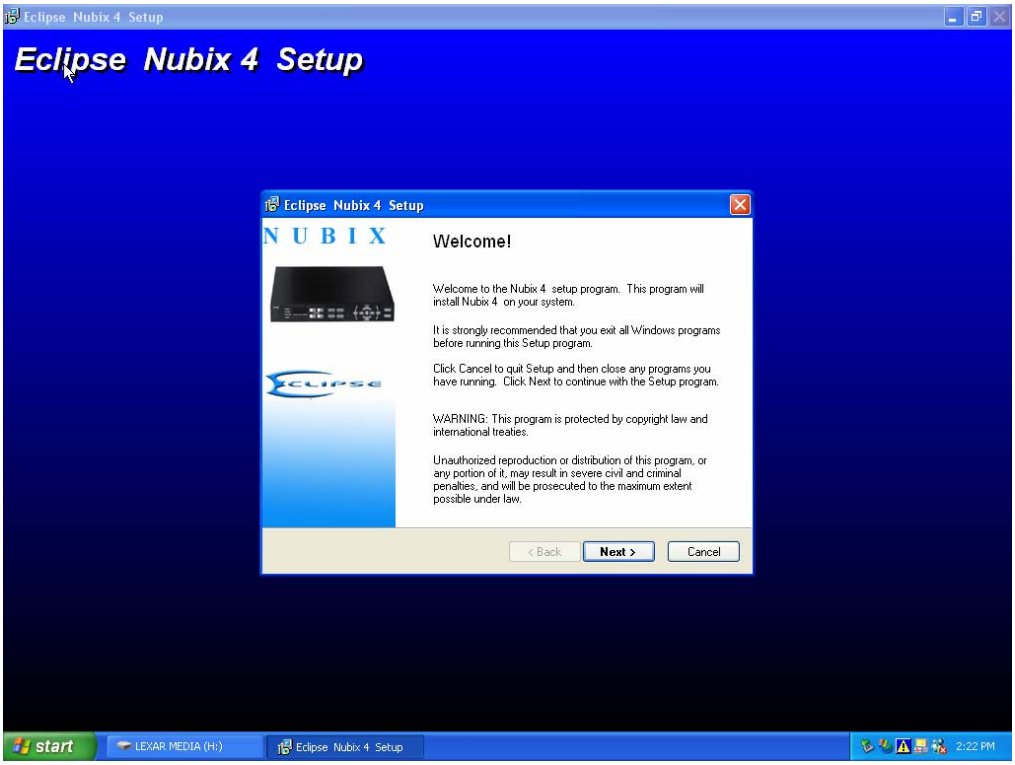
① Main Board (CPU): Celeron 500-700(Minimum), Pentium 4 recommend
② OS: More than Windows 98,DirectX 7.0A
③ Memory (RAM): More than 128 M
④ VGA: Overlay YV12 Format Graphic Card
All Radeon, Nvidia (Above Geforce) Matrox (Above G400) Compatible Video Card
※ Above DIVX Codec 5.1 (When Use Media Player)

### • Nubix Remote Client 2.3 Install

① Open CD-ROM Drive and Run Nubix Remote Client Setup.exe

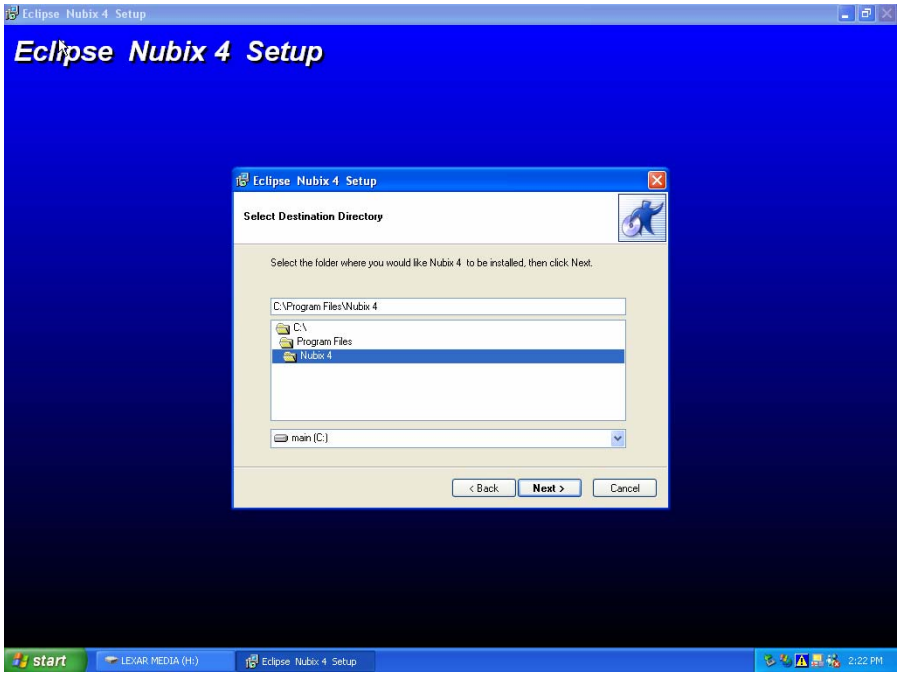



② Close All Running Software and Press Next to Move Next Step

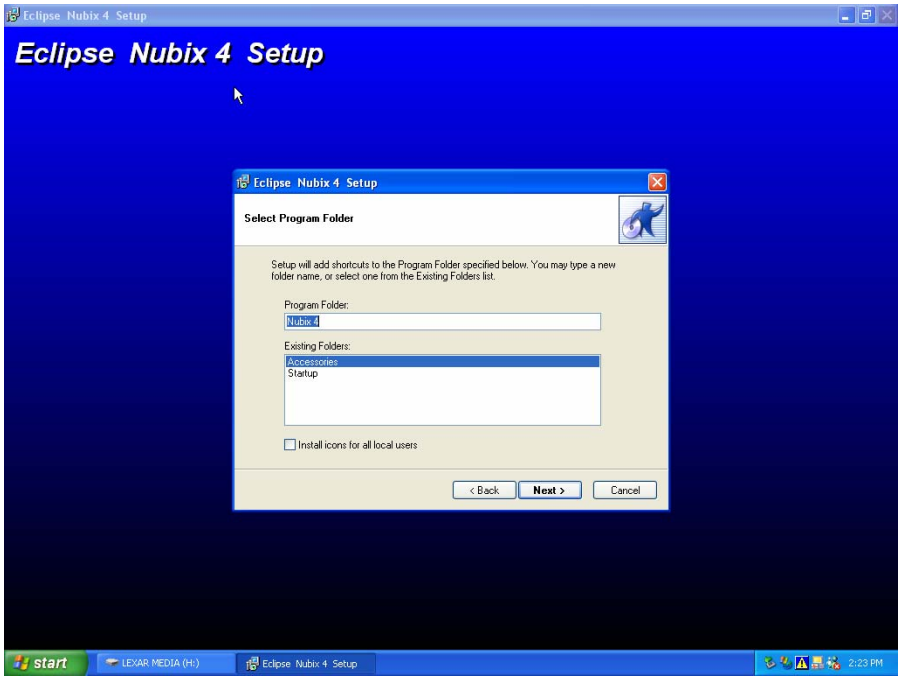

Eclipse Nubix 4 Setup
Eclipse Nubix 4 Setup
NUBIX
Welcome!
Welcome to the Nubix 4 setup program. This program will install Nubix 4 on your system.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
< Back
Next >
Cancel
start
LEXAR MEDIA (H:)
Eclipse Nubix 4 Setup
2:22 PM

# • Nubix Remote Client

③ The following screen will open. Click next to continue.

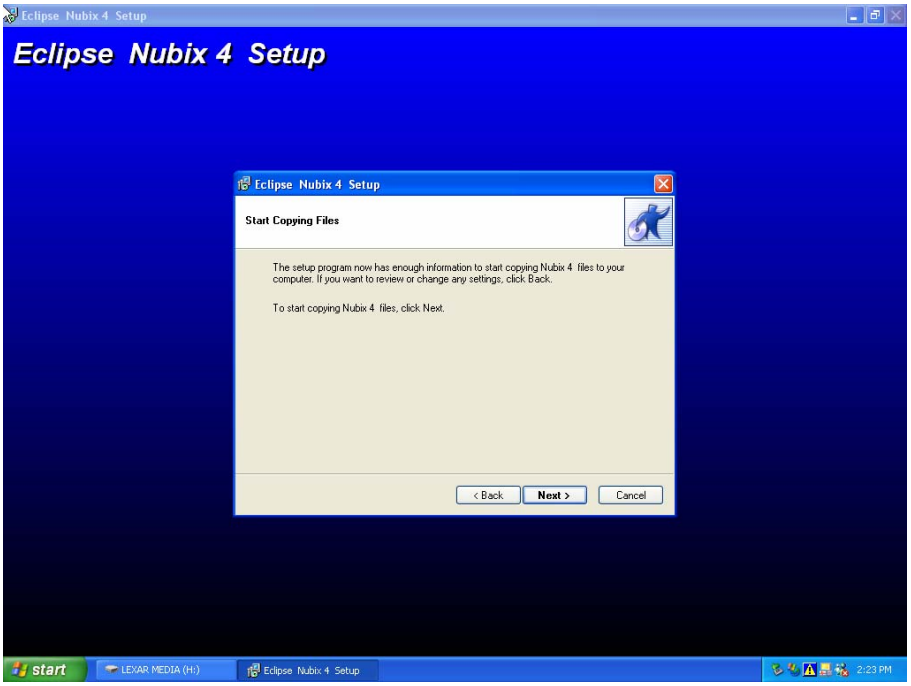



④ The next screen will show you where the Eclipse Nubix Folder will be installed. Click on the next button to continue

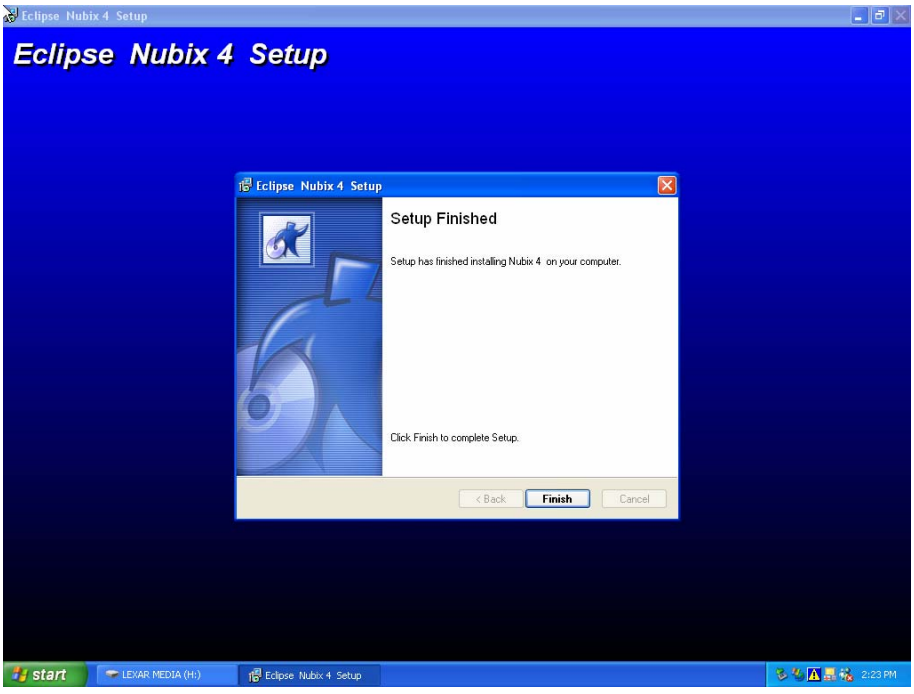

Eclipse Nubix 4 Setup
Eclipse Nubix 4 Setup
Eclipse Nubix 4 Setup
Select Program Folder
Setup will add shortcuts to the Program Folder specified below. You may type a new folder name, or select one from the Existing Folders list.
Program Folder:
Nubix 4
Existing Folders:
Accessories
Startup
Install icons for all local users
< Back
Next >
Cancel
start
LEXAR MEDIA (H:)
Eclipse Nubix 4 Setup
2:23 PM

# • Nubix Remote Client

5. The software will now start being copied to your computer. Select next…….

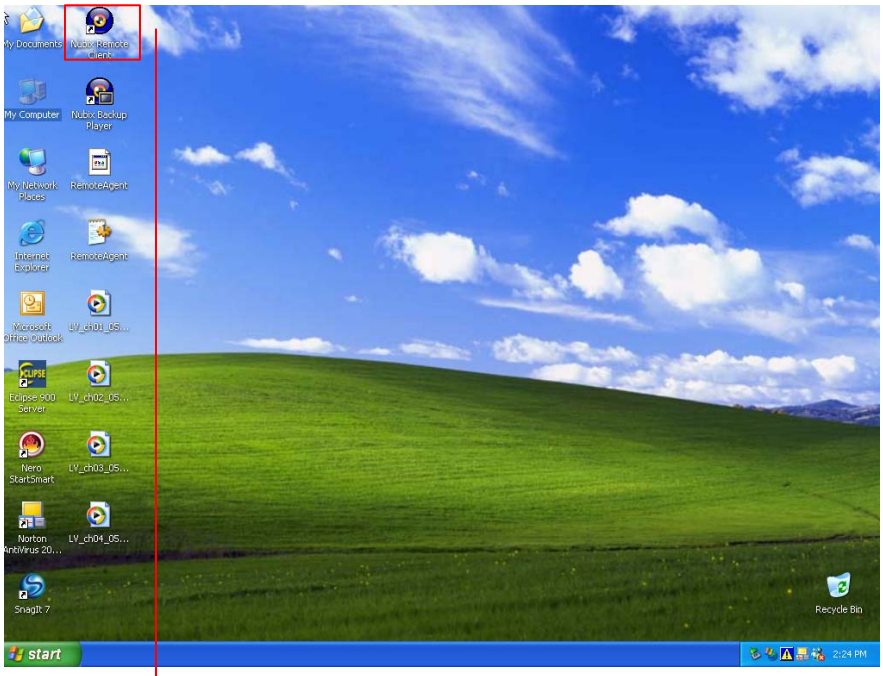

Eclipse Nubix 4 Setup
Eclipse Nubix 4 Setup
Eclipse Nubix 4 Setup
Start Copying Files
The setup program now has enough information to start copying Nubix 4 files to your computer. If you want to review or change any settings, click Back.
To start copying Nubix 4 files, click Next.
< Back
Next >
Cancel
start
LEXAR MEDIA (H:)
Eclipse Nubix 4 Setup
2:23 PM

Click on finish. Your Nubix Remote Client software is now



## • Nubix Remote Client

Now select the Nubix Remote Client icon on your windows desktop to begin.




Now select the Nubix Remote Client icon on your windows desktop to begin.

# • Nubix Remote Client

## 9.1 Monitoring

### 9.1.1 Function Introduction

① Main Screen Image : Showing Present Surveillance Camera Image

② Camera Selection Button : Indicate Connected Camera No. & Select Image to Click Camera No.

③ Hide/Exit : Hide DVR Client Window or Exit Program

④ Time Output : Showing Present Time & Date

⑤ Search : Move to Search Mode to Play Video
Setup : Move to Setup to Change Network Setup or Option

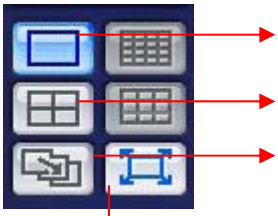
⑥ I/D Selection : Select I/D to Connect Server

⑦ Connect : Connect Server (NubiX)
Disconnect : Disconnect from Server

⑧ Screen Division Selection : Change Screen Division Mode
⑨ Save by AVI file : Transmission Live Image Save by AVI File
⑩ Color Adjustment : Adjust Color of Live Transmission Image
⑪ PTZ Control Button : Control Camera PTZ & Focus
⑫ Exit : Exit DVR Client

# • Nubix Remote Client

### 9.1.2 Screen Division Selection



• 1*1 View : Showing One (1) Video which User Selected
(Selection Video by Camera Selection Button)

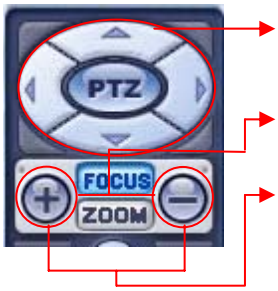
• 4*4 View : Quad Screen Division Mode

• Scenario View : One Large Screen Mode Showing One by One (1*1 View)
Depend on User Selection Time (Not Work Screen Division Mode)

• Full Screen View : Present Video Move to Full Screen Mode
Mouse Double Click when Return Previous

*Mouse Double Click Make the Same Function as Full Screen.

### 9.1.3 P/T/Z Control



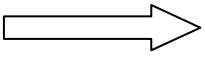

• P/T/Z Controller : Camera P/T/Z Control by Direction Keys

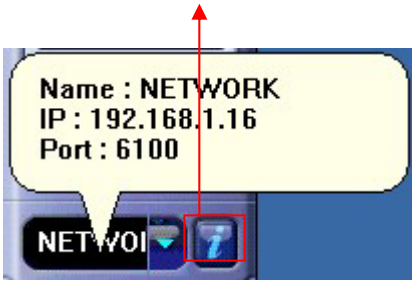
• FOCUS/ZOOM Select Button : Focus or Zoom Control by +,- Button

• +,- Control Button : Focus or Zoom Control

### 9.1.4 Selection Network I/D

Network Information Icon



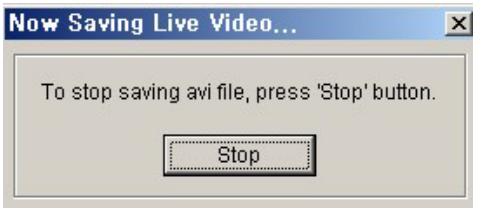



• Select I/D to Connect Server.
• I/D can be Add, Change, and Delete at Setup

• Click Network Information Icon, to See a Popup Window for Connected Server I/D, IP, and Port Information.

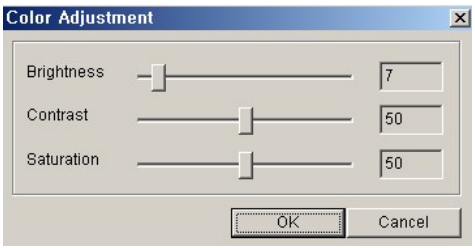
# • Nubix Remote Client

### 9.1.5 AVI File Conversion




- Click AVI Conversion Button to Start AVI File Conversion
- During AVI Conversion Showing a Message and before Click ‘Stop” Save AVI File continuously
- Press ‘Stop’ to Open Designate File Name & Saving Location, and Save AVI File
- Saved AVI File can Open Ordinary Moving Picture Player
- Moving Picture Player Codec Version is Above Divx 5.1.

### 9.1.6 Color Adjustment




- Click Controller Possible to Control Color
- Change Brightness, Contrast, Saturation from 0 to 100
- Click OK to Finish Changing Setup

# • Nubix Remote Client

## 9.2 Search Mode

### 9.2.1 Function Introduction

① Search Screen : Playing Selected Video

② Search Bar : Search & Indicate Camera Recording Situation by Time Bar

③ LIVE : Return to Watch Mode
SETUP : Open Setup to Change Network Setup or Option

④ Screen Division Selection : Change Playing Screen Division Mode

⑤ SEARCH Option : Backup Video or Search Event

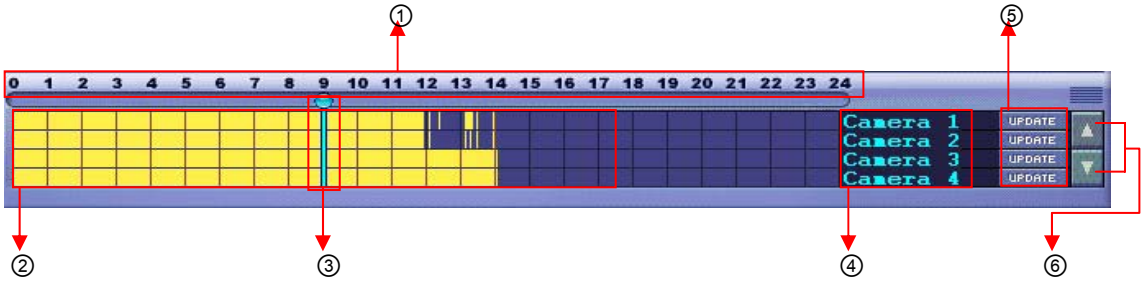
⑥ Camera Selection Button : Select Camera at the 1*1 View

⑦ Quick Search : Find Image to Designate Date & Time

⑧ Search Controller : Control Playing Video

# • Nubix Remote Client

### 9.2.2 Search Method




① Indicate 0~24 Hour

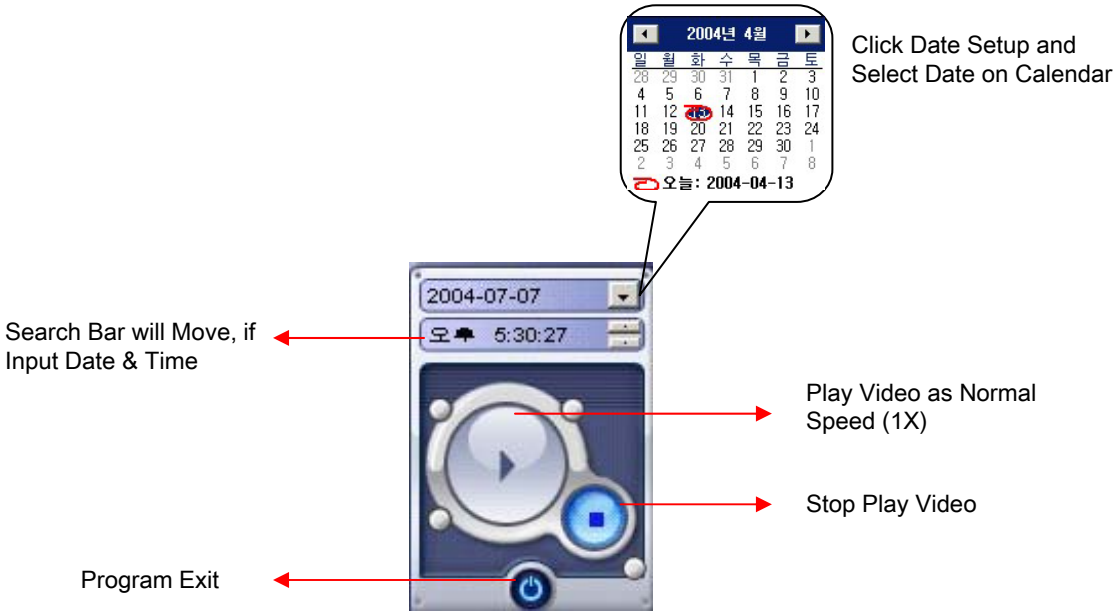
② Indicate Recording Situation (Blue : No Record, Yellow : Recorded Image at the Time)

③ Search Bar : Select Video to Drag Mouse Search Controller in Recorded Area

④ Indicate Camera Channel to Confirm Camera Recording Situation

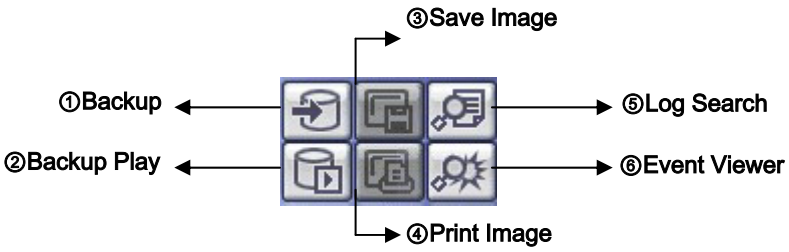
⑤ Refreshment Recording Information Situation Window by Camera Channel

⑥ If Connected Channel is 5 or More, Another Channel will be Scroll.

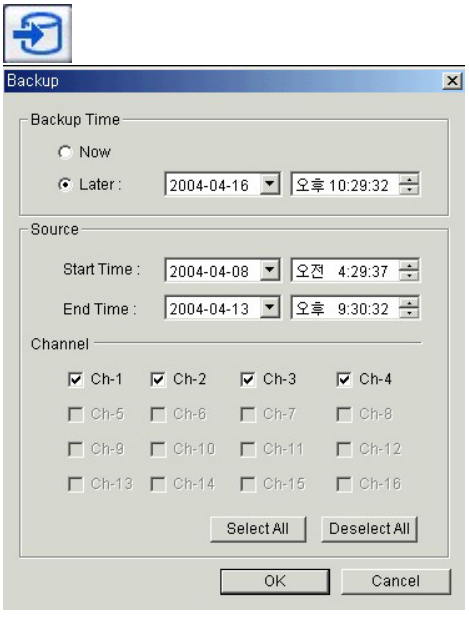

2004년 4월
일 월 화 수 목 금 토
28 29 30 31 1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 1
2 3 4 5 6 7 8
오늘: 2004-04-13
Click Date Setup and Select Date on Calendar
2004-07-07
오 5:30:27
Search Bar will Move, if Input Date & Time
Play Video as Normal Speed (1X)
Stop Play Video
Program Exit

# • Nubix Remote Client

### 9.2.3 Search Option




① **Backup** – Backup Image from Server to Remote PC




• Backup Time : Designate Backup Time (Now or Later)

• Designate Backup Date & Time when Later

• Source :

Designate Backup Image Data Length to Input Start Time & End Time.

• Channel : Check Camera Channel for Backup

• Select All
Deselect All

•Press OK to Open Backup Status & Start Backup.

•When Finish Backup, Back Status Window Disappear & Backup Data Save at Hard Disk Root Folder in Remote PC.

# • Nubix Remote Client

**② Backup Play (DVR Player) –** Transfer to DVR Player

① Showing Image (Possible to Only 1*1View Mode)

② Backup File Open to Play First Video

Ex. : ch02_04131730_04131735.rec ( Backup File for # 2 ch. Apr.13, 17H30M ~17H35M )

③ Indicate Present Playing Video Camera Channel No.

④ Indicate Present Time & Date and Possible to Search Time & Date

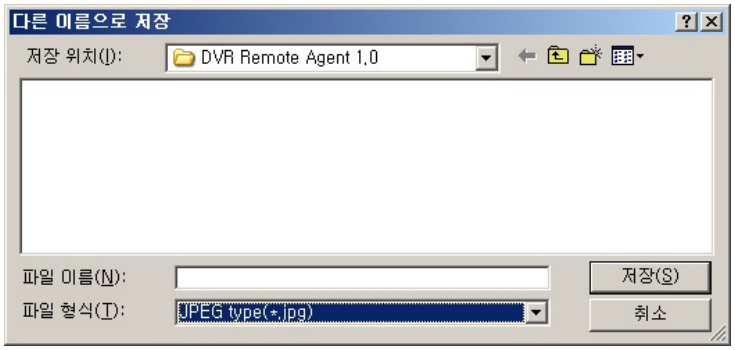
⑤ Search Controller, the Same Way of Previous Search

**Tip**

• Backup Play Setup in Search Mode is the Same as DVR Player, so it can be Run Independently without Running Remote Program.

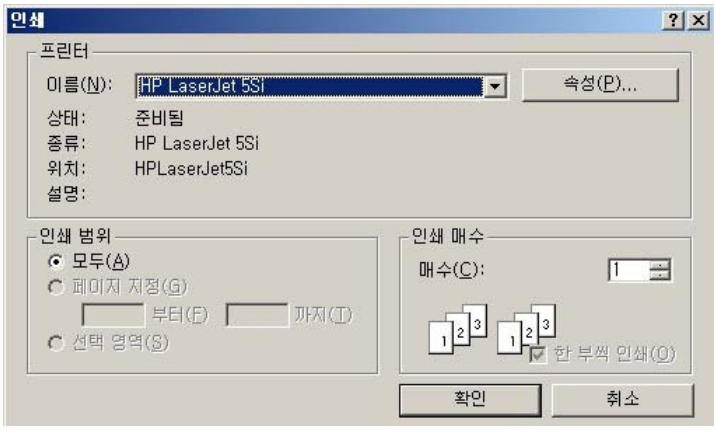
# • Nubix Remote Client

③ **Save Image –** Capture Image & Saving Image at Hard Disk or Removable Disk




- Click 'Save Image' Icon During Playing Video
- Designate File name, File Type (JPG,BMP), and Location and Press Saving
- Conversion and Saving Image from Remote Viewer

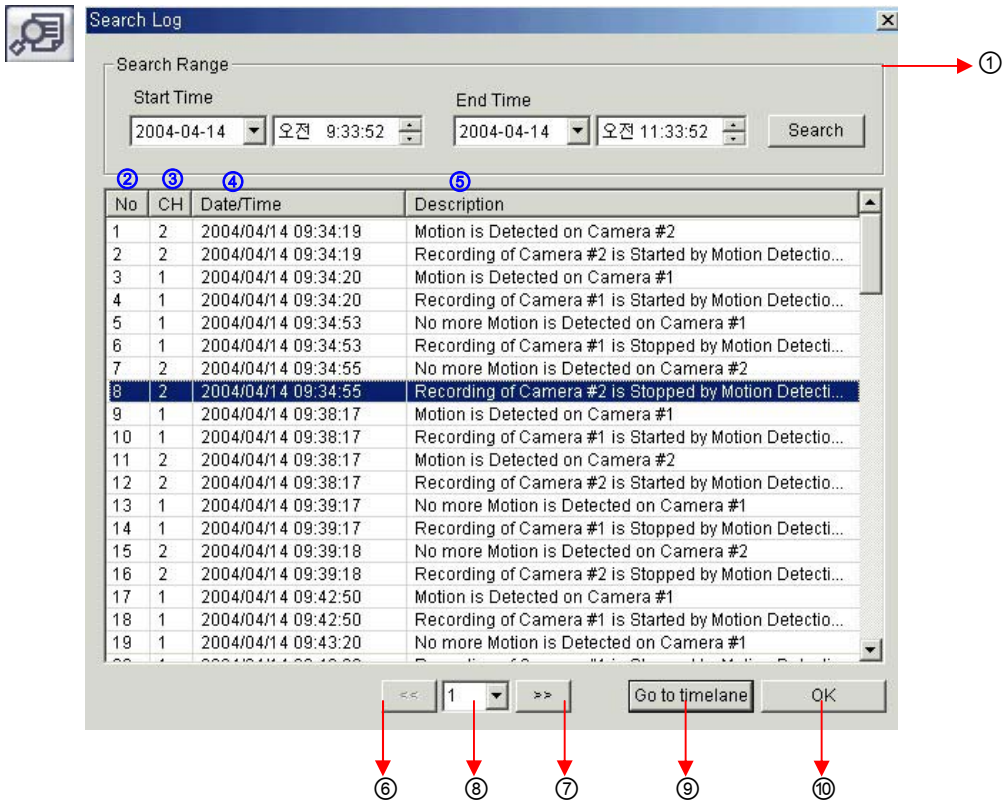
③ **Print Image –** Present Image Capture and Print Out Image




- During Play Video, Click 'Print Image'
- After Selecting Printer, Start Image Printing
- Print Out Remote Viewer Image

# • Nubix Remote Client

③ **Log Search –** Find Video Centering around Event Log at Server


Search Log
Search Range
Start Time
2004-04-14
오전 9:33:52
End Time
2004-04-14
오전 11:33:52
Search
①
② ③ ④ ⑤
No | CH | Date/Time | Description
1 | 2 | 2004/04/14 09:34:19 | Motion is Detected on Camera #2
2 | 2 | 2004/04/14 09:34:19 | Recording of Camera #2 is Started by Motion Detectio...
3 | 1 | 2004/04/14 09:34:20 | Motion is Detected on Camera #1
4 | 1 | 2004/04/14 09:34:20 | Recording of Camera #1 is Started by Motion Detectio...
5 | 1 | 2004/04/14 09:34:53 | No more Motion is Detected on Camera #1
6 | 1 | 2004/04/14 09:34:53 | Recording of Camera #1 is Stopped by Motion Detecti...
7 | 2 | 2004/04/14 09:34:55 | No more Motion is Detected on Camera #2
8 | 2 | 2004/04/14 09:34:55 | Recording of Camera #2 is Stopped by Motion Detecti...
9 | 1 | 2004/04/14 09:38:17 | Motion is Detected on Camera #1
10 | 1 | 2004/04/14 09:38:17 | Recording of Camera #1 is Started by Motion Detectio...
11 | 2 | 2004/04/14 09:38:17 | Motion is Detected on Camera #2
12 | 2 | 2004/04/14 09:38:17 | Recording of Camera #2 is Started by Motion Detectio...
13 | 1 | 2004/04/14 09:39:17 | No more Motion is Detected on Camera #1
14 | 1 | 2004/04/14 09:39:17 | Recording of Camera #1 is Stopped by Motion Detecti...
15 | 2 | 2004/04/14 09:39:18 | No more Motion is Detected on Camera #2
16 | 2 | 2004/04/14 09:39:18 | Recording of Camera #2 is Stopped by Motion Detecti...
17 | 1 | 2004/04/14 09:42:50 | Motion is Detected on Camera #1
18 | 1 | 2004/04/14 09:42:50 | Recording of Camera #1 is Started by Motion Detectio...
19 | 1 | 2004/04/14 09:43:20 | No more Motion is Detected on Camera #1
<<
1
>>
Go to timelane
OK
⑥ ⑧ ⑦ ⑨ ⑩

① Input Start Time and End Time at the Selected Date to Search Event
When Press Search Button, Event Output at the Below Window

② Indicate Event Log Order No. ( Max Event Log No. of 1 Page is 100 )

③ Indicate Event Occurred Camera No.

④ Indicate Event Occurred Time & Date

⑤ Indicate Event Detail Description

⑥ Move to Previous Page

⑦ Move to Next Page

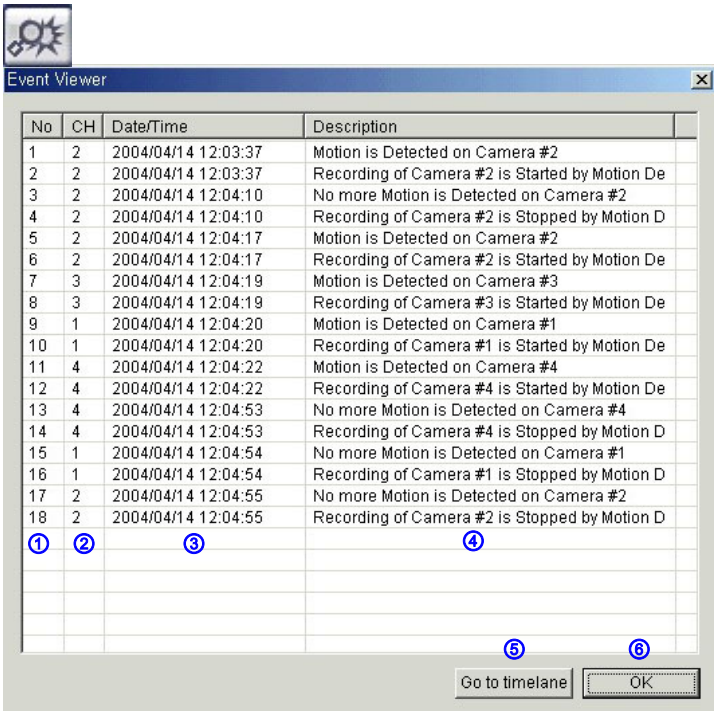
⑧ Move to User Select Page

⑨ After Select Event, Move Search Bar in Search Mode

⑩ Return to Search Main to Play Event Image

# • Nubix Remote Client

④ **Event Viewer** – Showing Present Event in Server & Find Image


Event Viewer
No
CH
Date/Time
Description
1 2 2004/04/14 12:03:37 Motion is Detected on Camera #2
2 2 2004/04/14 12:03:37 Recording of Camera #2 is Started by Motion De
3 2 2004/04/14 12:04:10 No more Motion is Detected on Camera #2
4 2 2004/04/14 12:04:10 Recording of Camera #2 is Stopped by Motion D
5 2 2004/04/14 12:04:17 Motion is Detected on Camera #2
6 2 2004/04/14 12:04:17 Recording of Camera #2 is Started by Motion De
7 3 2004/04/14 12:04:19 Motion is Detected on Camera #3
8 3 2004/04/14 12:04:19 Recording of Camera #3 is Started by Motion De
9 1 2004/04/14 12:04:20 Motion is Detected on Camera #1
10 1 2004/04/14 12:04:20 Recording of Camera #1 is Started by Motion De
11 4 2004/04/14 12:04:22 Motion is Detected on Camera #4
12 4 2004/04/14 12:04:22 Recording of Camera #4 is Started by Motion De
13 4 2004/04/14 12:04:53 No more Motion is Detected on Camera #4
14 4 2004/04/14 12:04:53 Recording of Camera #4 is Stopped by Motion D
15 1 2004/04/14 12:04:54 No more Motion is Detected on Camera #1
16 1 2004/04/14 12:04:54 Recording of Camera #1 is Stopped by Motion D
17 2 2004/04/14 12:04:55 No more Motion is Detected on Camera #2
18 2 2004/04/14 12:04:55 Recording of Camera #2 is Stopped by Motion D
① ② ③ ④
⑤ ⑥
Go to timelane
OK

① Indicate Event Occurred Order No.

② Indicate Event Occurred Camera No.

③ Indicate Event Occurred Time & Date

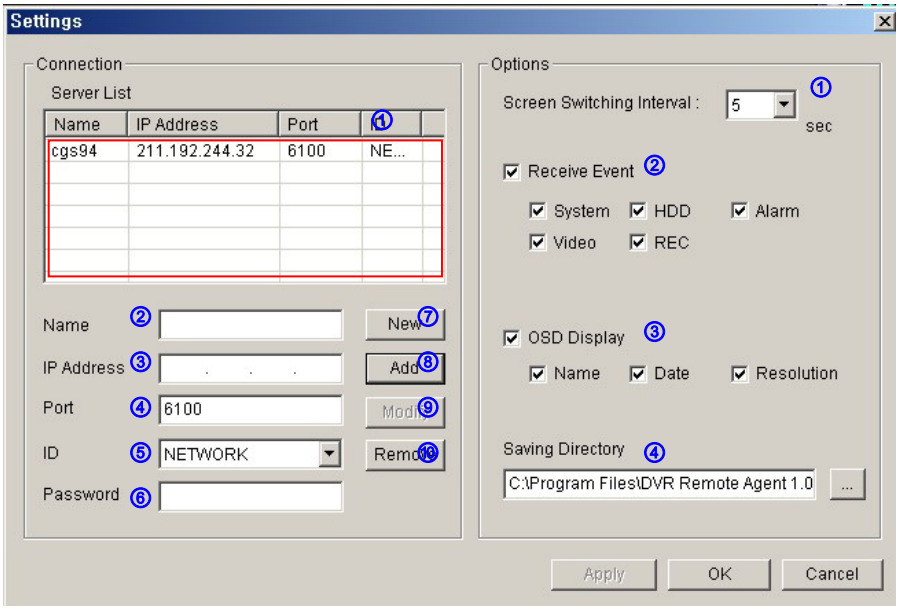
④ Indicate Event Detail Description

⑤ After Select Event, Move Search Bar in Search Mode

⑥ Return to Search Main to Play Selected Event Image

# • Nubix Remote Client

## 9.3 Setting




### 9.3.1 Connection ID Setup

① ID Status : Indicate Present Saving ID & ID Information
② Input Name to Add or Amend ID
③ Input IP Address to Add or Amend Server
④ Indicate Port No.
⑤ Input ID for Connecting Server
⑥ Input Password for Connecting Server
⑦ Click to Input New ID Information
⑧ After Input All ID Information, Add ID Information at ID Status
⑨ After Amend All ID Information, Applying Change ID Information
⑩ Selected ID Delete at ID Status

**Tip**

• Initial ID & Password is ‘NETWORK’ & ‘1234’

### 9.3.2 Option Setting

① Control Screen Rotation Time in Scenario Mode at Watch Mode
(Possible to Setup from 1~300 sec.)

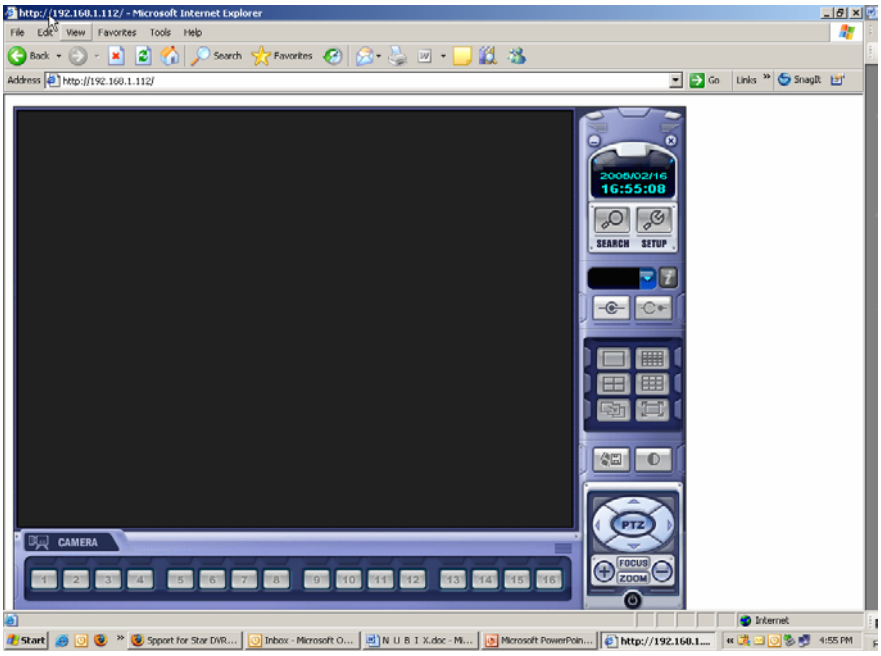
② Possible to Select Event Kind Plurally from Server. Remote Client Only can See Selected Event.
(System, HDD, Alarm, Video, REC)

③ Setup Print-Out Image of Information Display from Server (Name, Date, Resolution)

④ Designate Backup Image Saving Folder at Remote PC

# • New Features

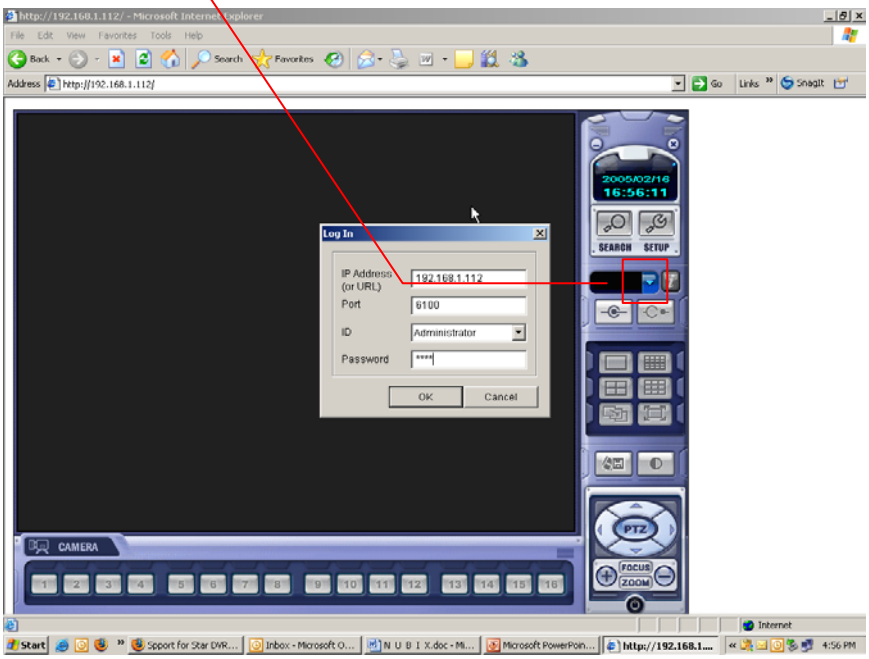
**Web Client** – Our Nubix 4 now offers Web Client capability. Simply open you Internet Explorer Browser and type in the IP address of your unit. Use your internal for connection on your local network and use the external WAN IP for remote connections away from you network. **Please make sure you have port 80 forwarded to your Nubix ip address or the web client will not work.**



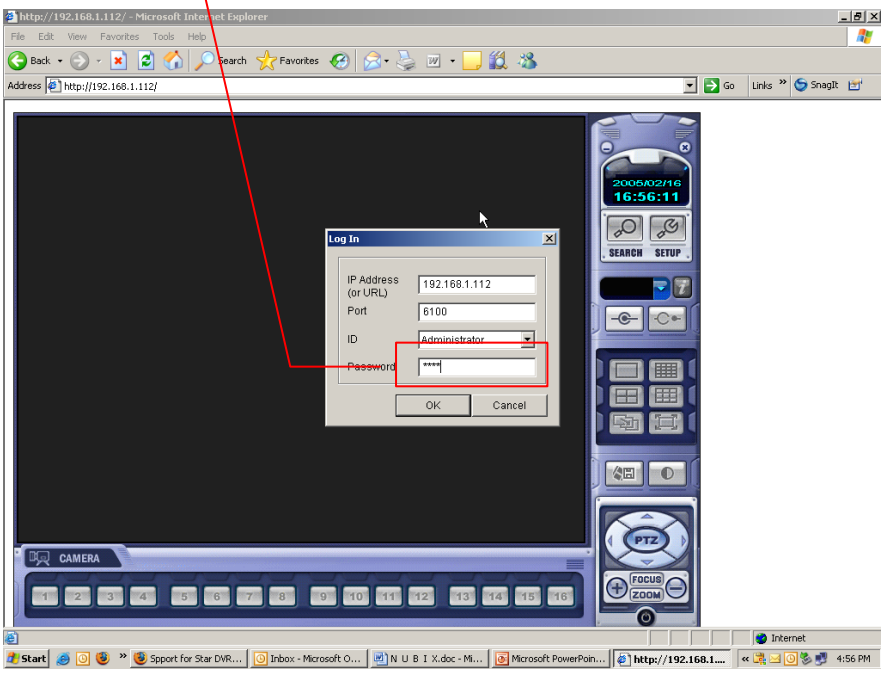

Upon entering the software you will be asked to install our direct x plug in. Select yes to have it installed. You will only have to do this once from the computer you are connecting with.

# • New Features

Press the blue down arrow to login.




Enter your Administrator, Operator or Manager login you setup in the Nubix. This is a four digit number and press ok.

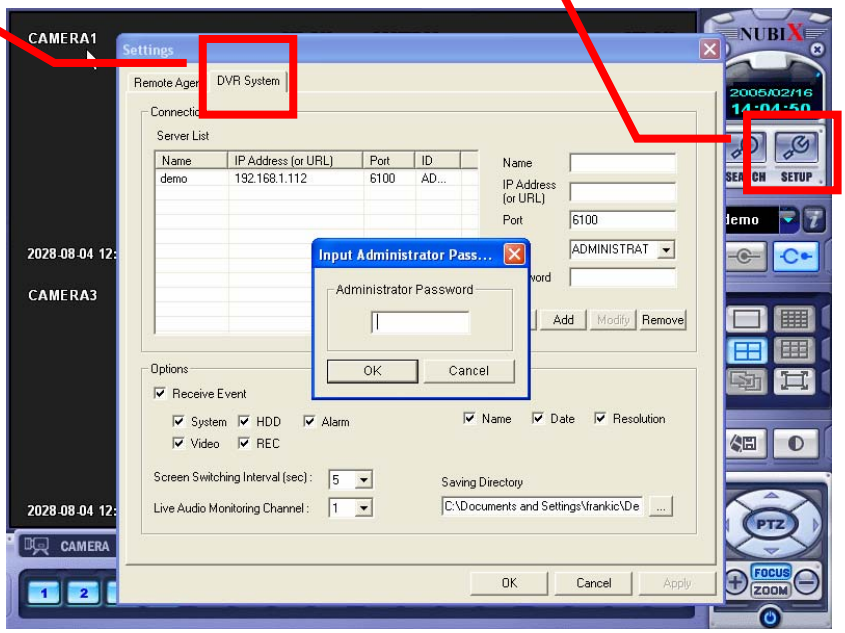


# • New Features: Web Client

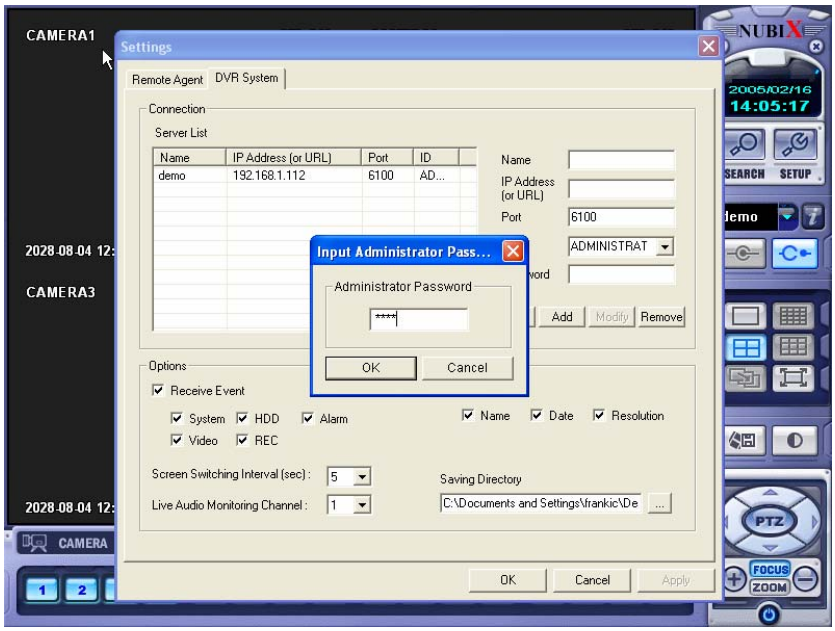
You should now be Logged on and viewing your site. Currently you can only view your site through the Web Client you cannot go in search or setup.

# • New Features: Setup through Client Software

When connected with your Remote Client  Software (not webserver ) You can now enter the setup of the Nubix DVR and make changes away from the Nubix location. Click on setup and select the DVR System tab .




Upon selecting the DVR System tab you will be prompted for the adminstator password. Enter your password and hit ok.

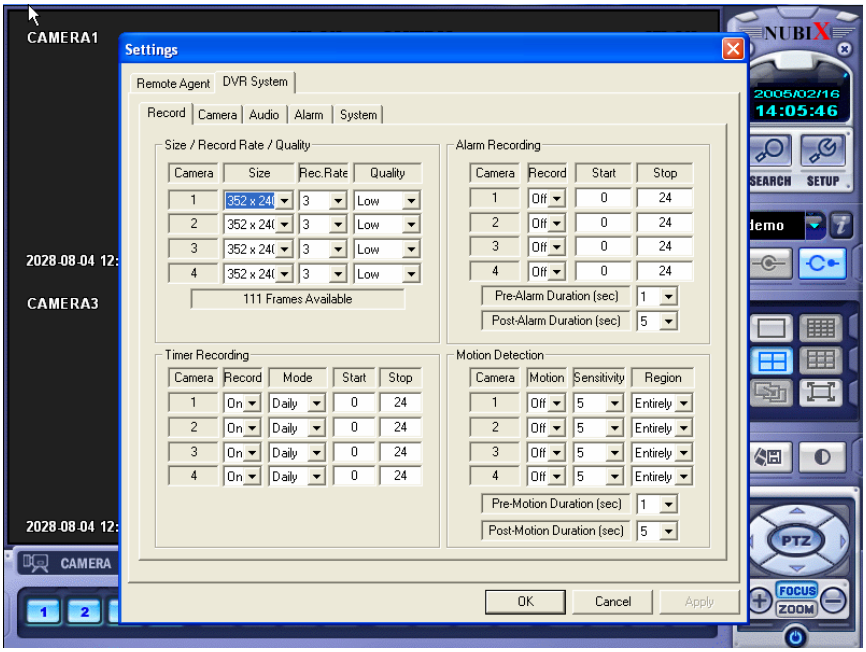


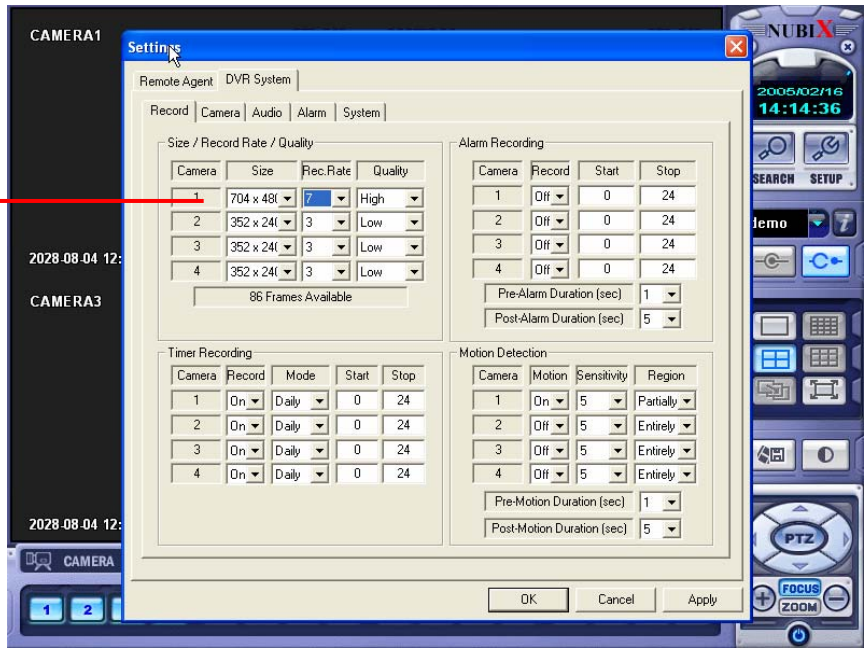
# • New Features: Setup through Client Software

Once logged in the setup menu will appear.

On the first tab labeled record you will have the capability to

Chose your viewing size, recording rate & quality. Any changes made here will directly effect your recording and remote viewing .



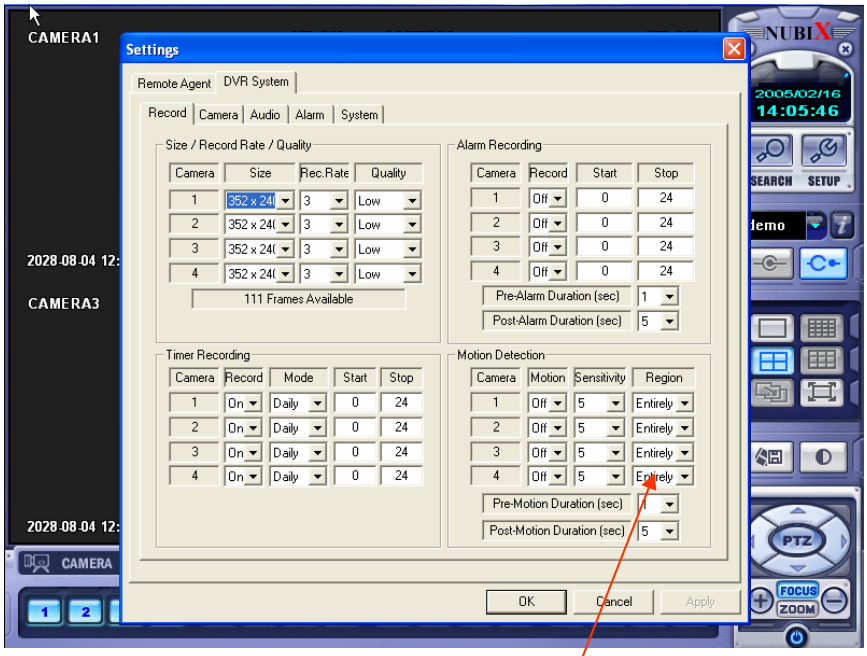




As an example if you choose to have your picture size to be 704x480 with your fram e rate at 7 fps and your quality on high yo u would see a High Quality picture and yo ur recording storage history would be sho rter. On the remote side having your setti ngs set to this quality would slow your re mote connection because the quality of th e video is higher and bigger.

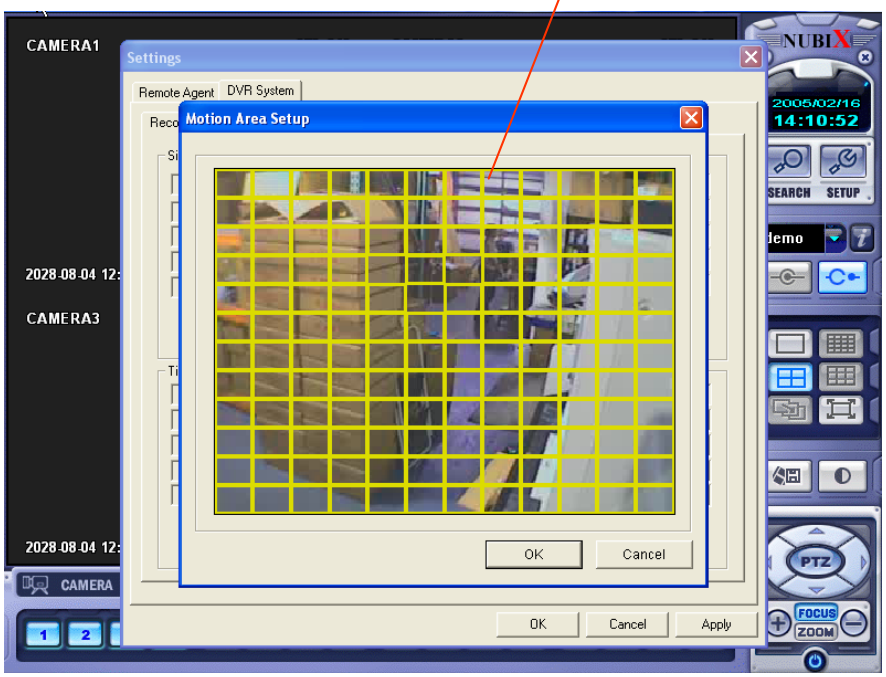
We recommend your setting to be 352x24 0 with a 5 fps rate and the quality at stand ard for an equal balance of recording qual ity and remote quality.

# • New Features: Setup through Client Software

Other setting options include Alarm recording, Timer Recording and Motion Detection.

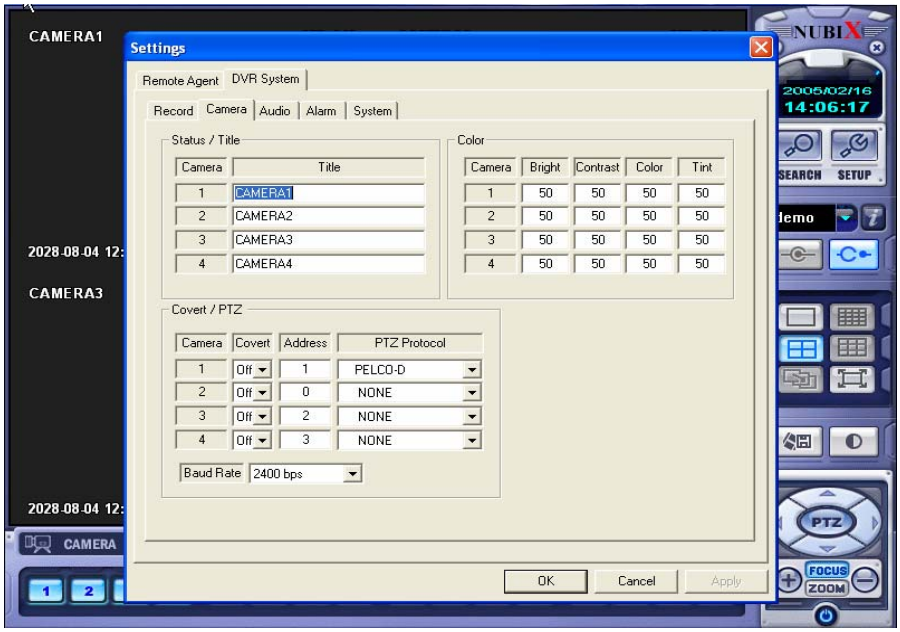



You may select to have the motion detection work on selected areas of the screen.



# • New Features: Setup through Client Software

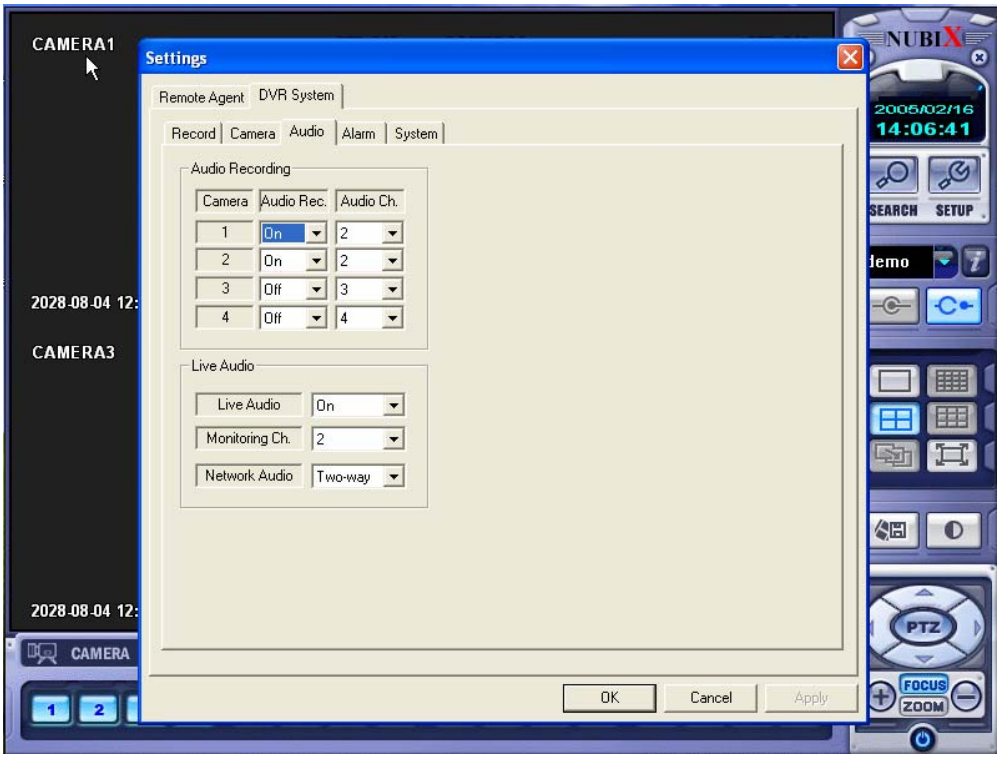
On the second tab you have the Camera setup screen. Here you can change the name of the cameras adjust the brightness, contrast, color and tint of each camera and setup your PTZ cameras.




Note : For Eclipse Series Domes SP530 and SP540 the Standard Protocol is Pelco-D, Buad Rate 2400.

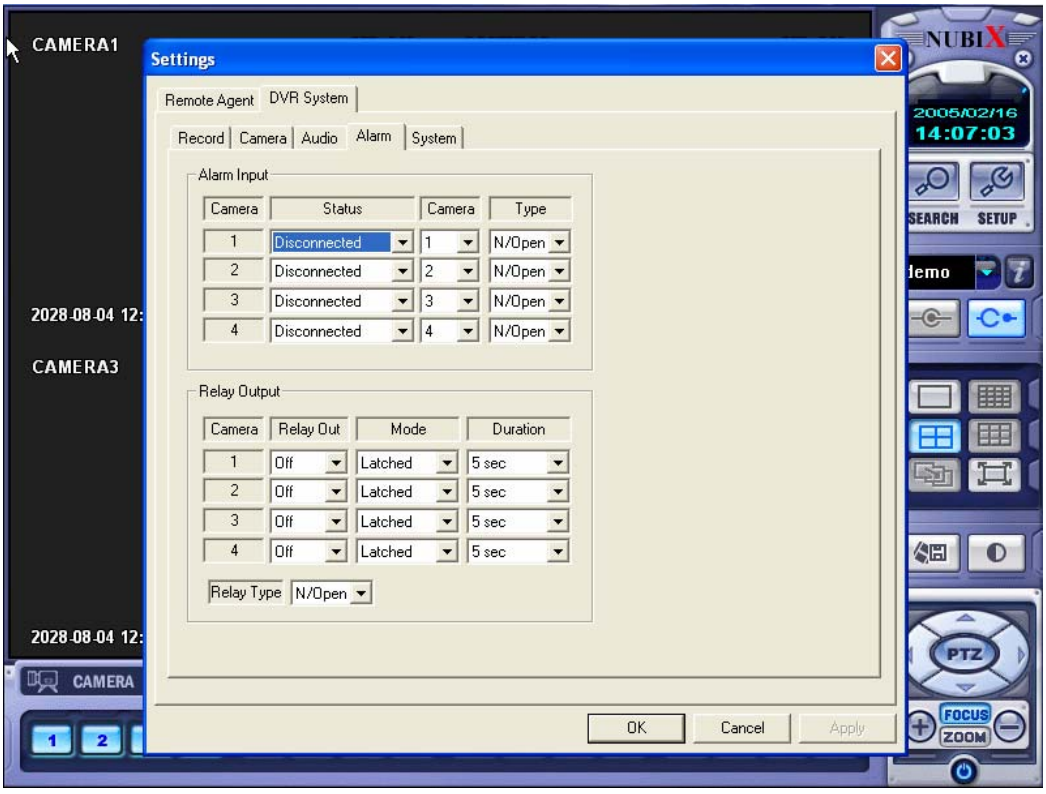
# • New Features: Setup through Client Software

The Audio tab allows you to turn on or off the audio recording feature. You can also choose which camera you would like to listen to live. If you chose the two way audio feature you can communicate with another user at the Nubix server. You must have speakers and a microphone connected at the Remote Client computer and your Nubix Server must have audio cameras installed and a monitor that supports audio.



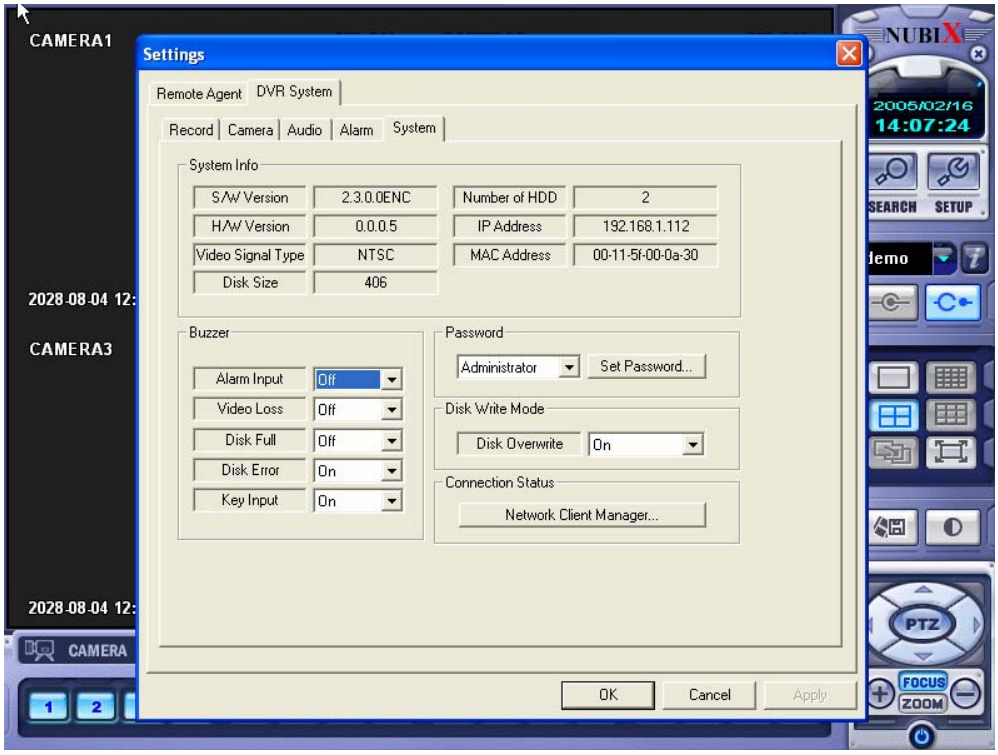
# • New Features: Setup through Client Software

The Alarm tab allows you to setup the alarm outputs located behind the Nubix. You may also setup relays to trip several different types of devices like our Eclipse Doorstikes or Eclipse Maglocks.



# • New Features: Setup through Client Software

The last tab labeled System allows you see the system information and change buzzer settings for your Nubix. You have the option of setting passwords, adding operators and changing the disk write mode. You can have the Nubix stop when its full or keep overwriting over itself when full. With the network client manager you can see who is connected to the Nubix at any given time.



- Date of Issuing: 20040201
- Test Report No: E046R-077
- Model Name: ECL-Nubix 4

- Date of Issuing: 20040226
- Test Report No: E046R-072,E0R6R-073
- Model Name: ECL-Nubix 4

- Date of Issuing: 20040909
- Registration Number: E-A900-04-3784
- Model Name: ECL-Nubix 4